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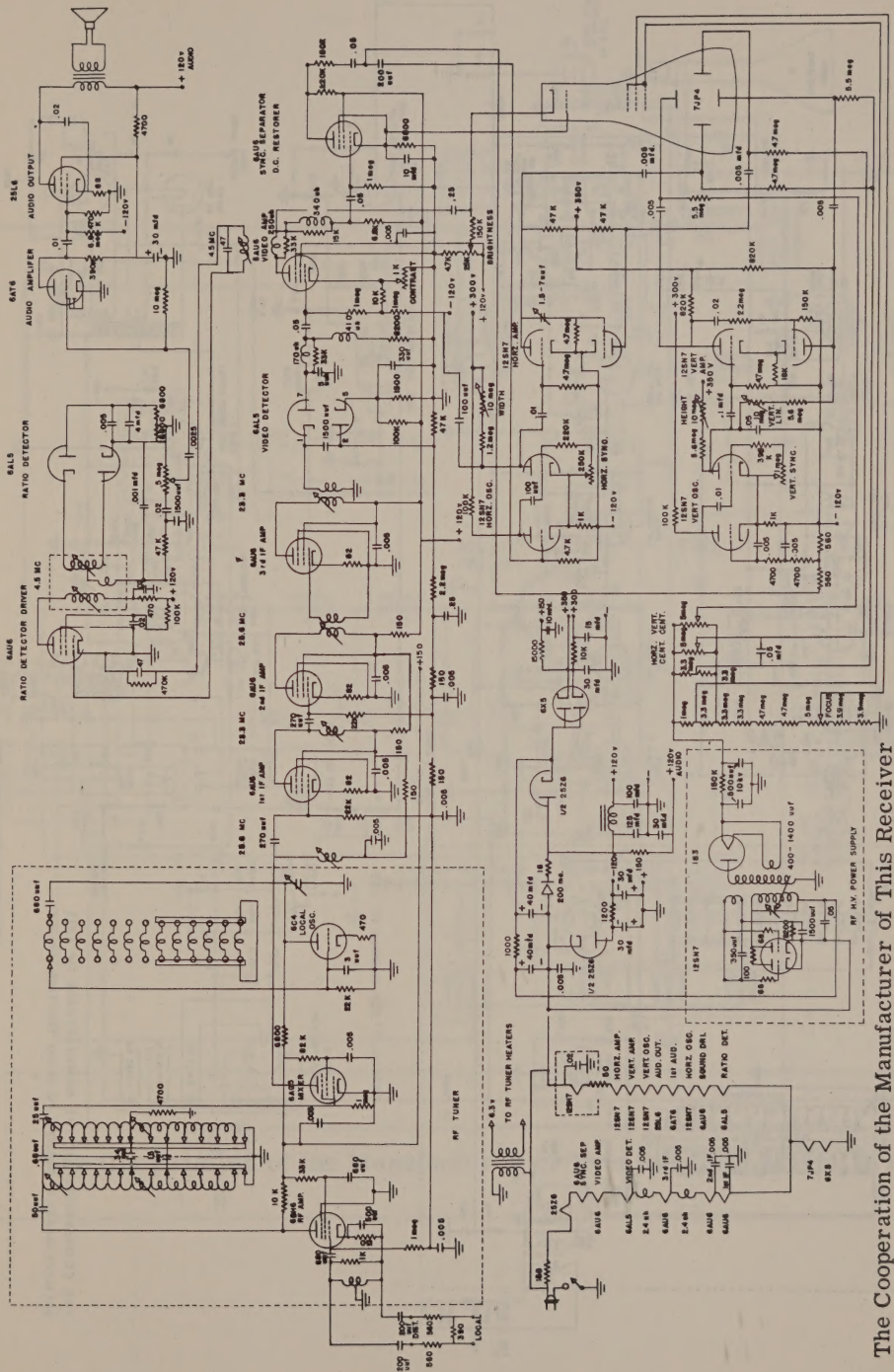

AIRCASTLE MODELS XB702, XB703

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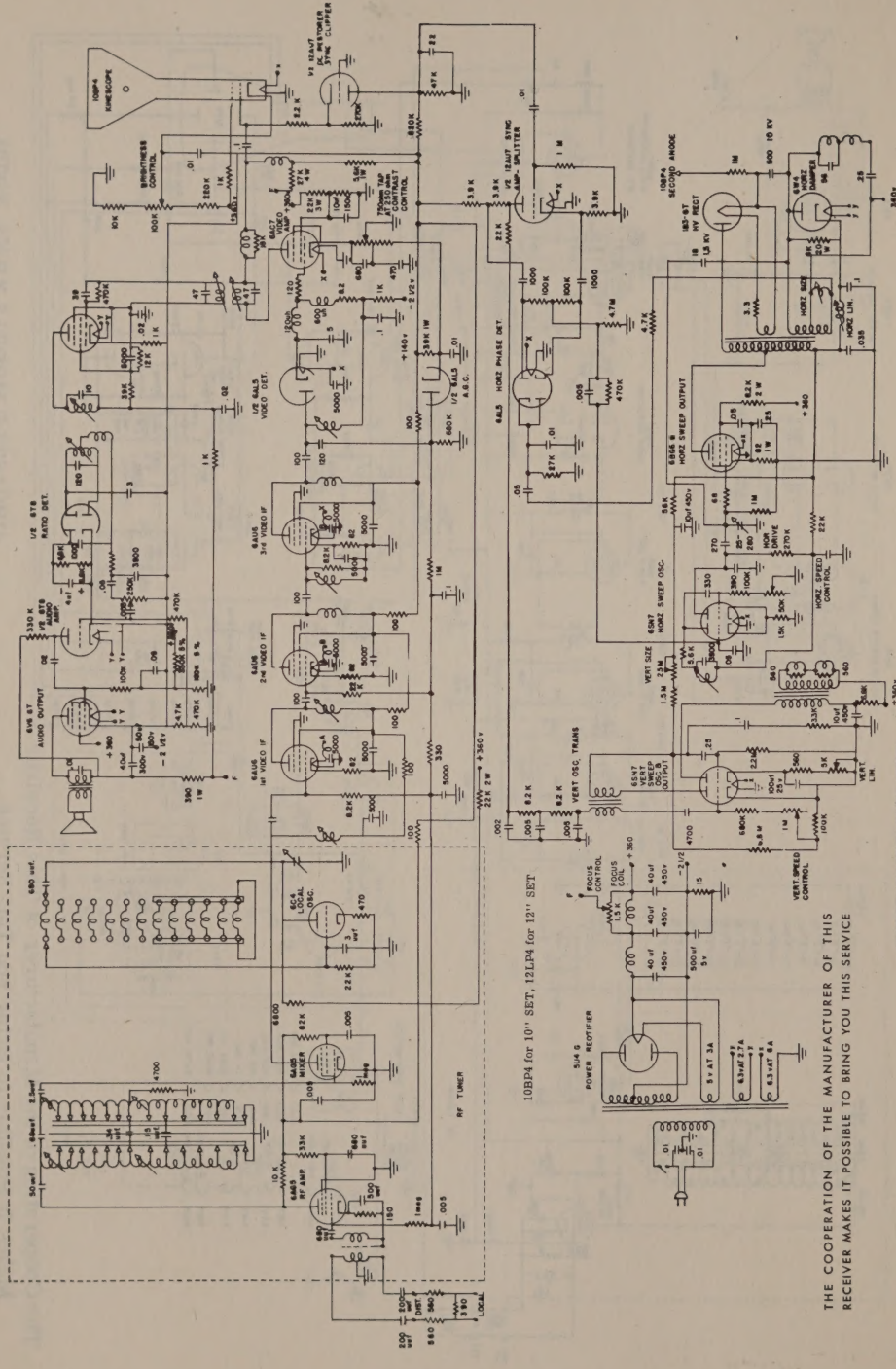
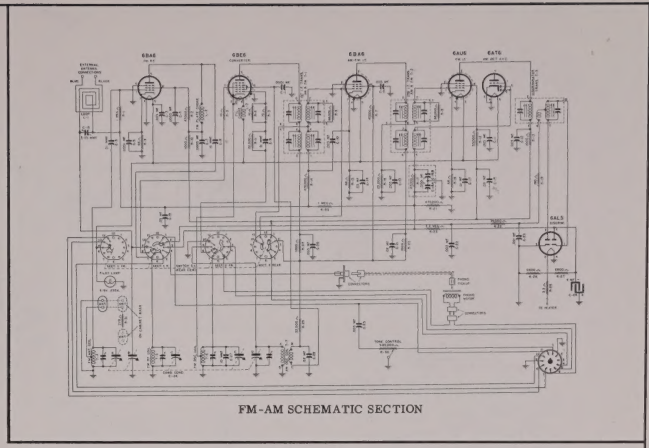

10BP4 for 10" SET, 12LP4 for 12" SET
AIRCASTLE MODELS XL750, XP775
THE COOPERATION OF THE MANUFACTURER OF THIS
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE



FM-AM SCHEMATIC SECTION

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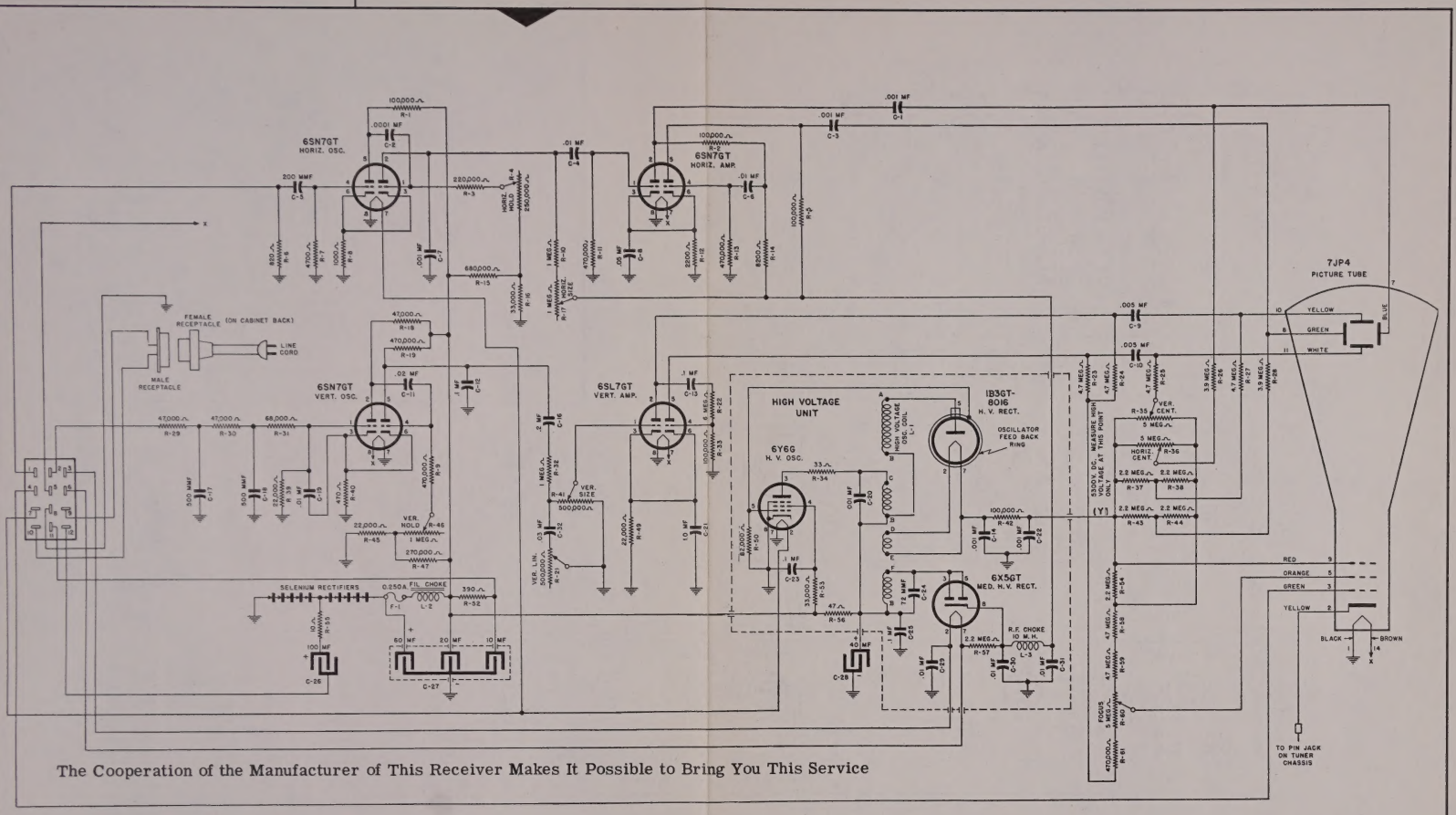
AIRLINE MODEL 94GSE-3018A

AIRLINE
MODEL 94GSE-3018A



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AIRLINE MODEL 94GSE-3018A

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SET 93A FOLDER 2

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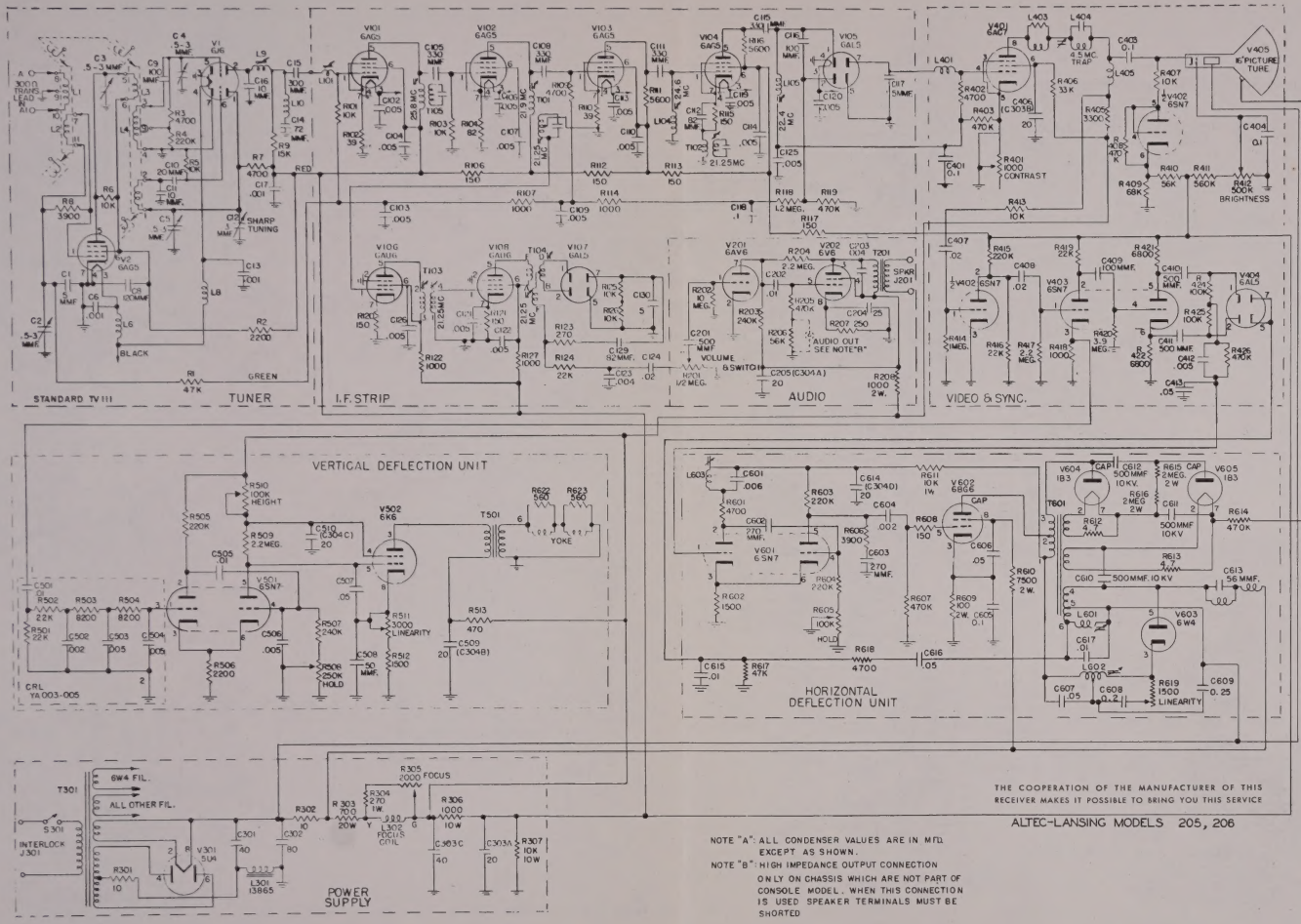
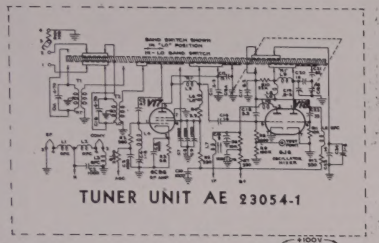


THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

ALTEC-LANSING MODELS 205, 206

NOTE "A": ALL CONDENSER VALUES ARE IN MFD. EXCEPT AS SHOWN.

NOTE "B": HIGH IMPEDANCE OUTPUT CONNECTION ONLY ON CHASSIS WHICH ARE NOT PART OF CONSOLE MODEL. WHEN THIS CONNECTION IS USED SPEAKER TERMINALS MUST BE SHORTED



ARVIN MODEL 4080T (Ch. TE282)

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SET 93A FOLDER 3

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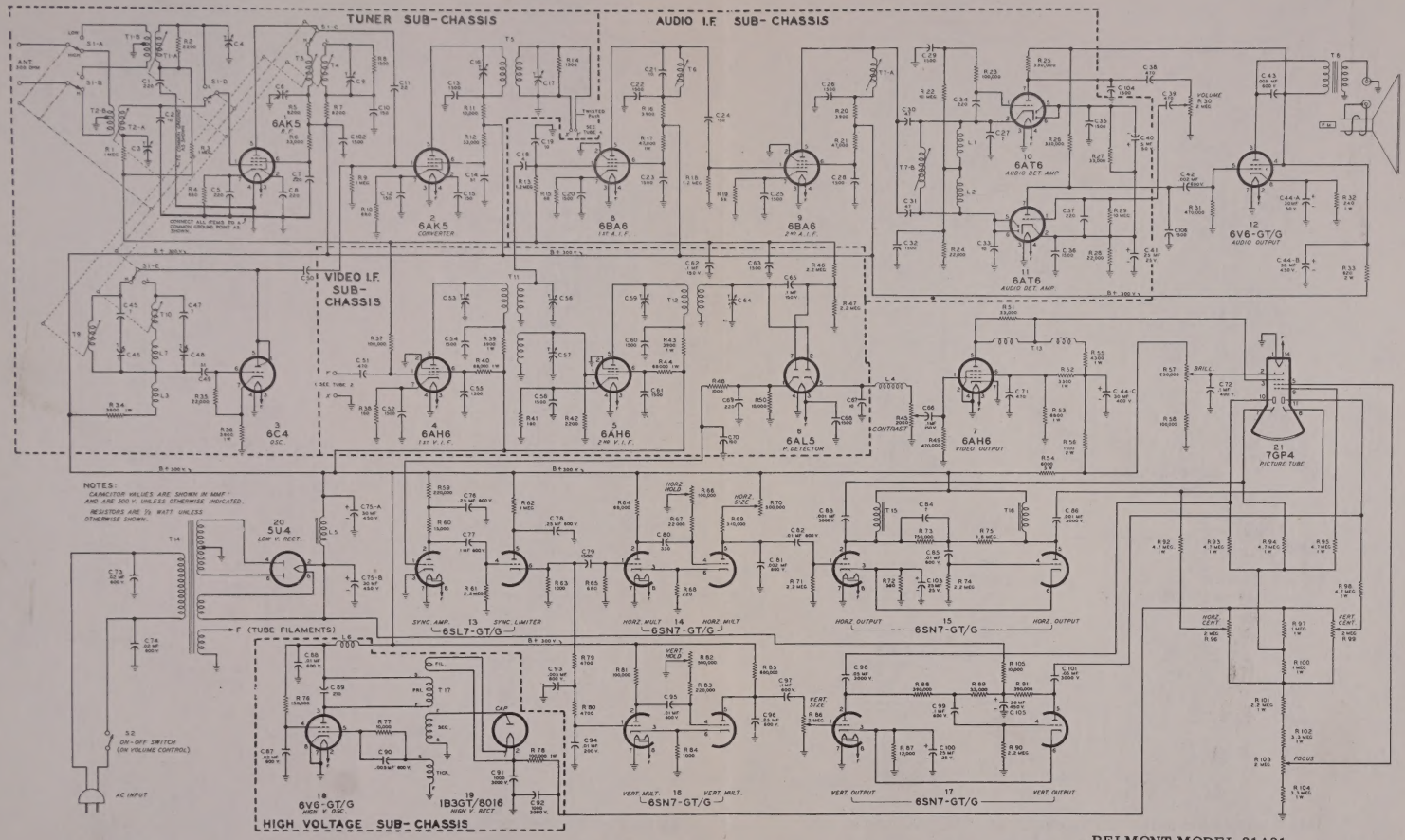

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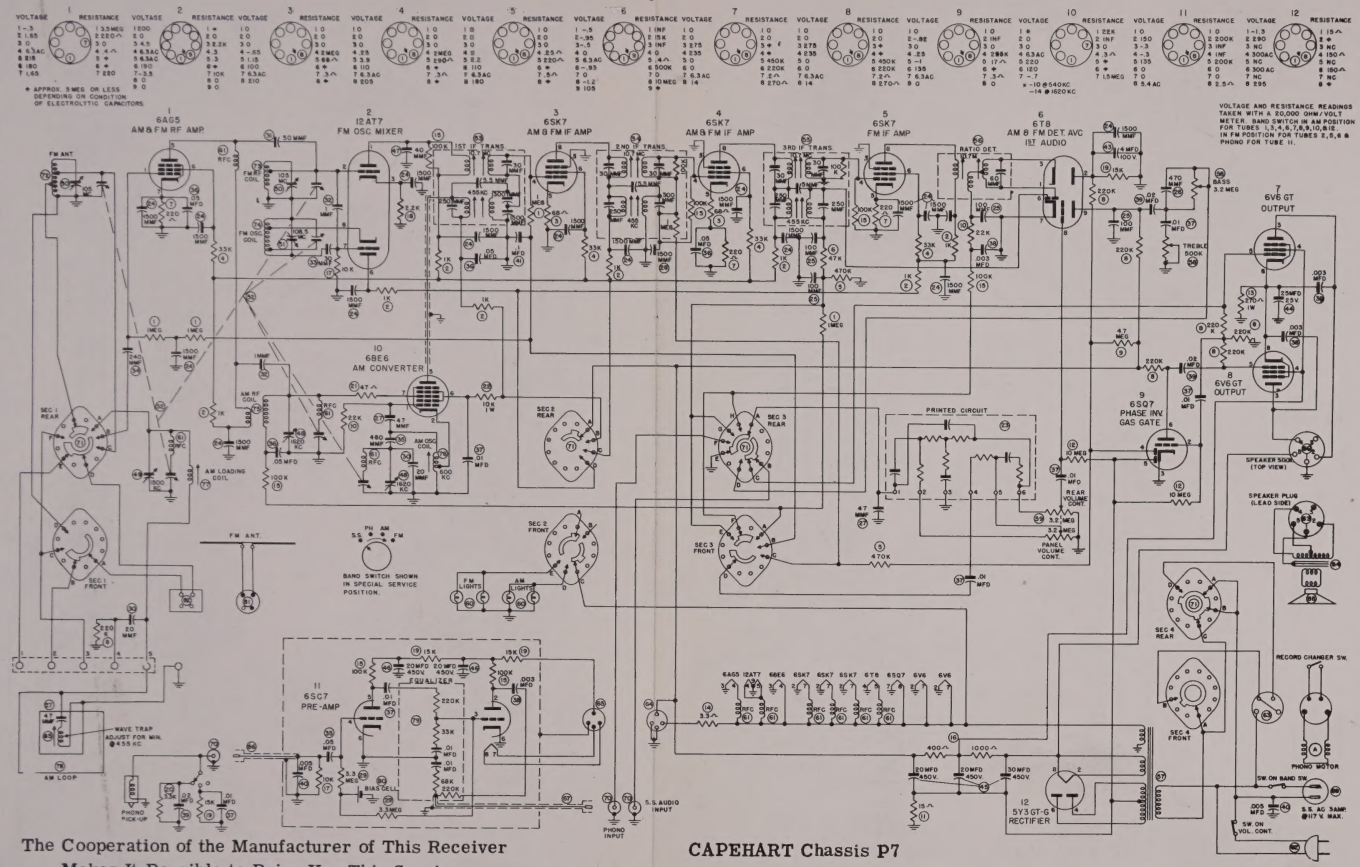
BELMONT MODEL 21A21



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CAPEHART Chassis P7

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SET 93A FOLDER 4

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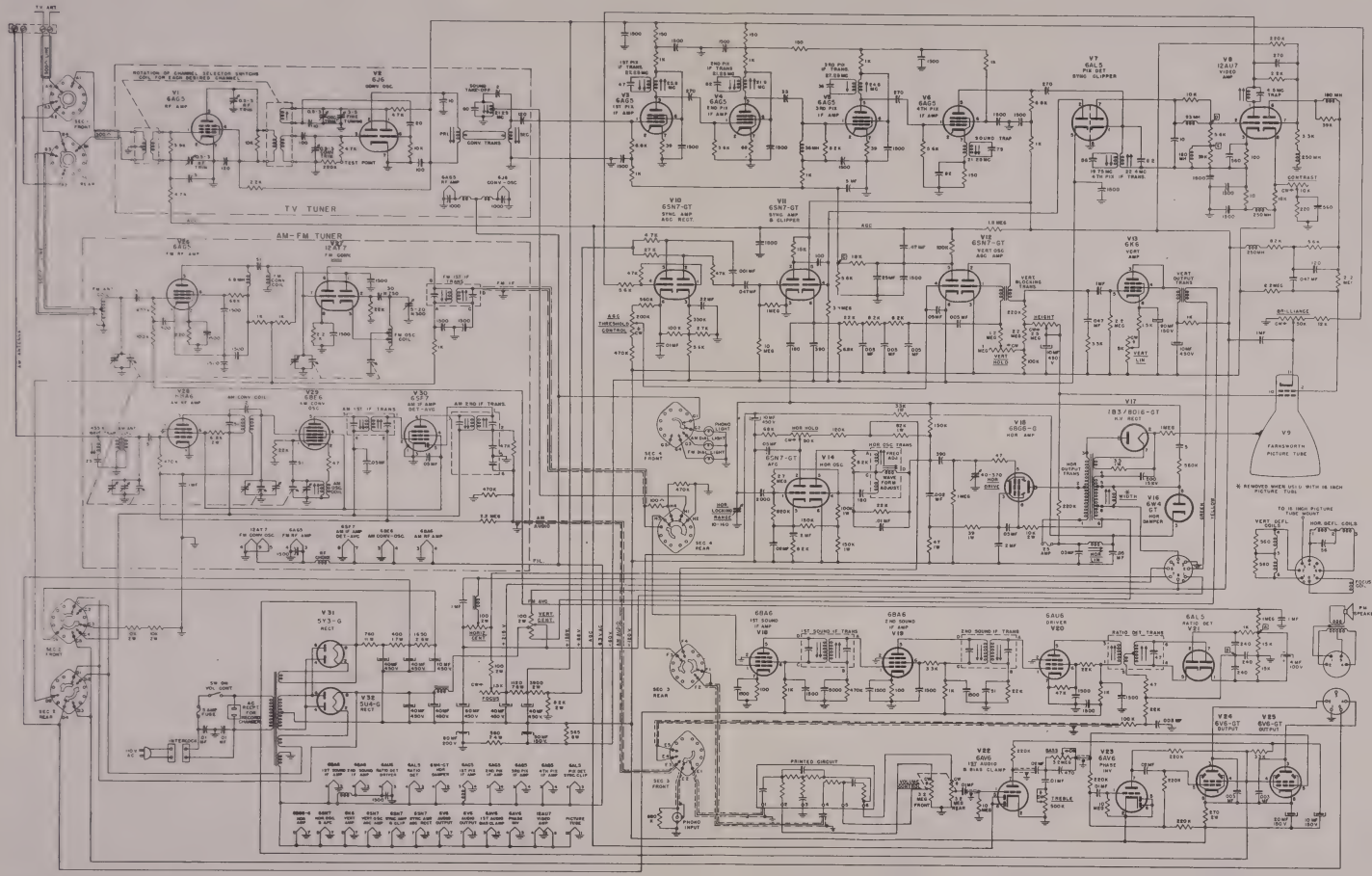

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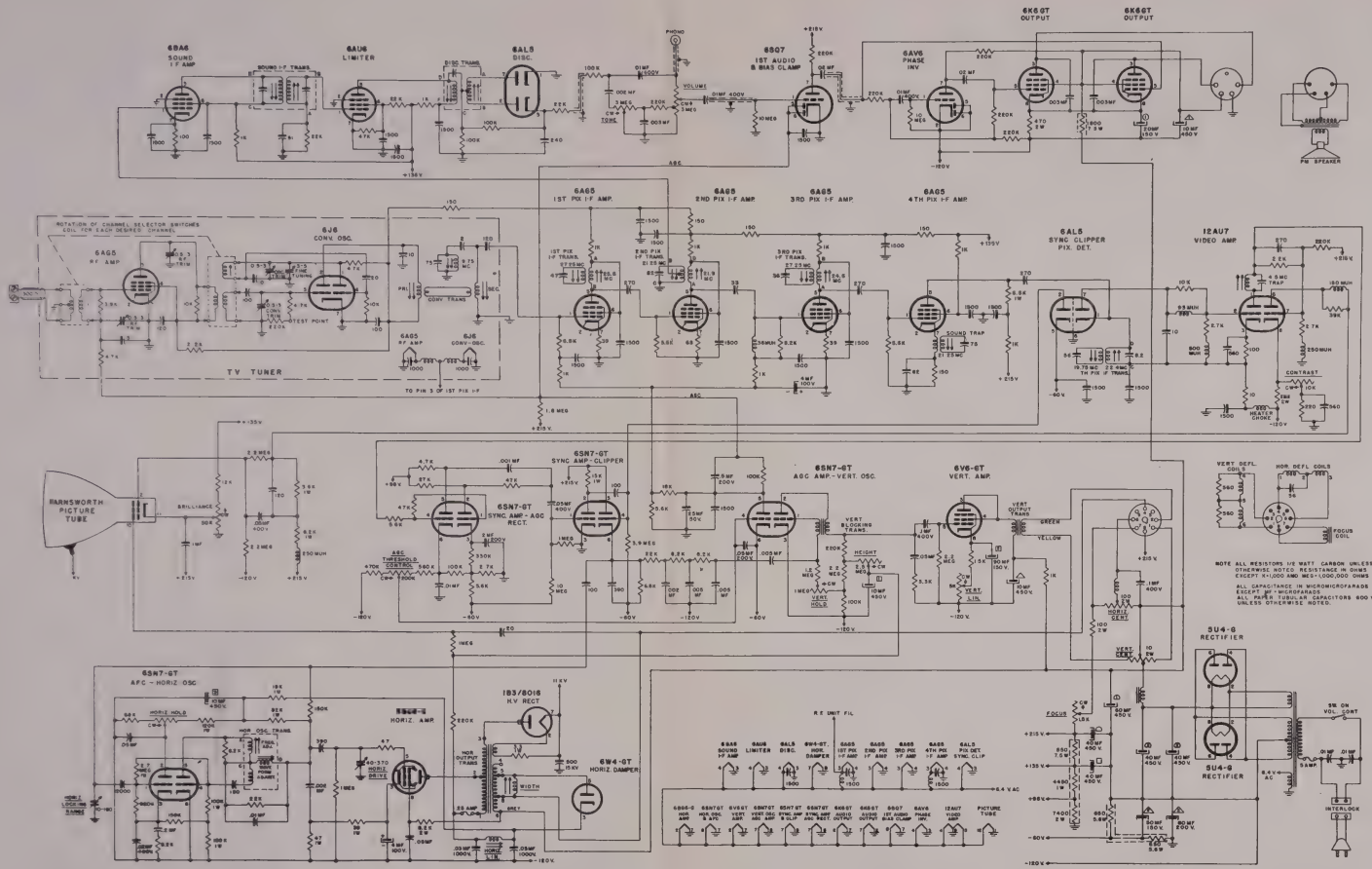
CAPEHART Chassis CX31 (Prod. C-268 and C-274)



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CAPEHART Chassis CX32(Prod. C-278 and C-279)

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SET 93A FOLDER 5

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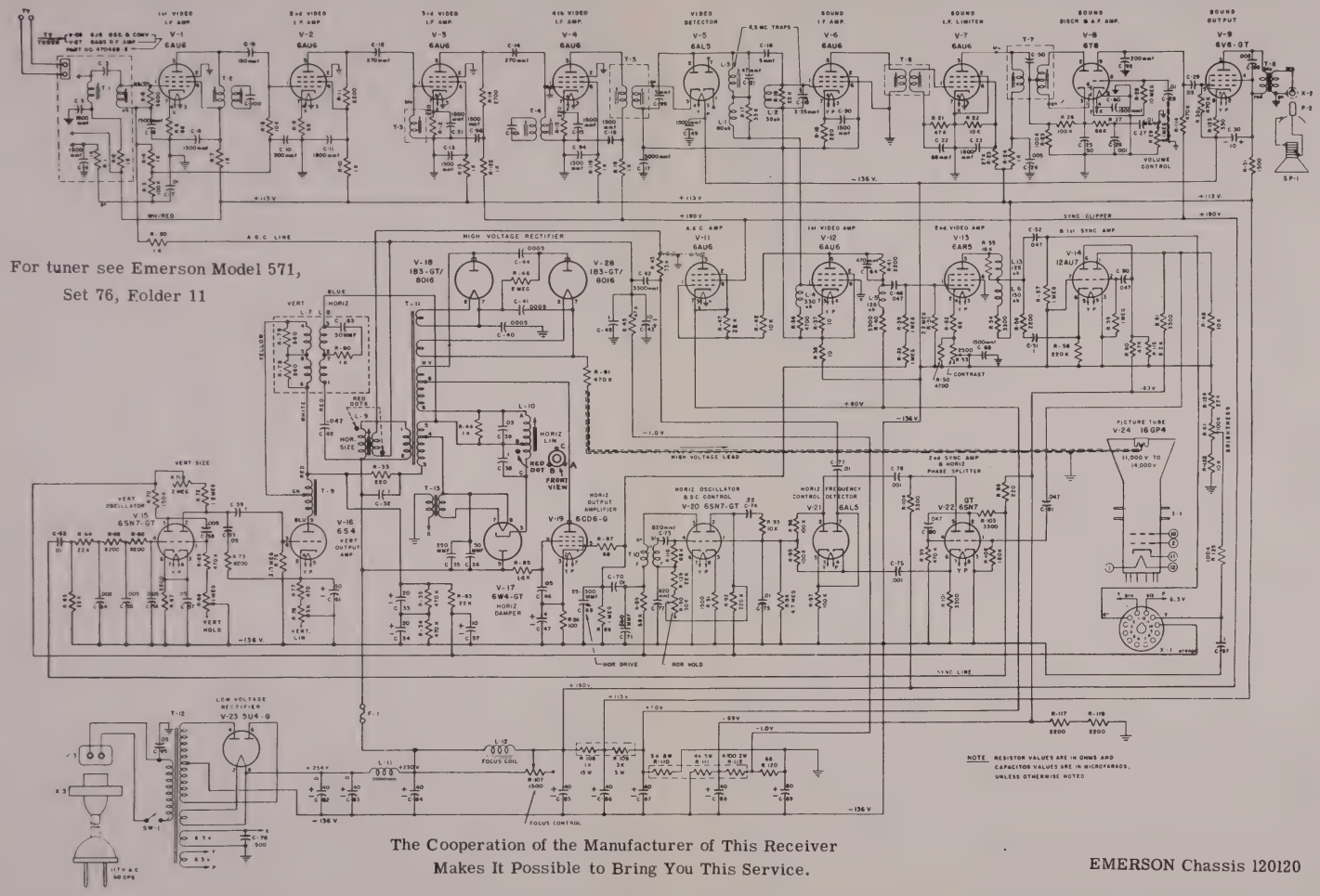
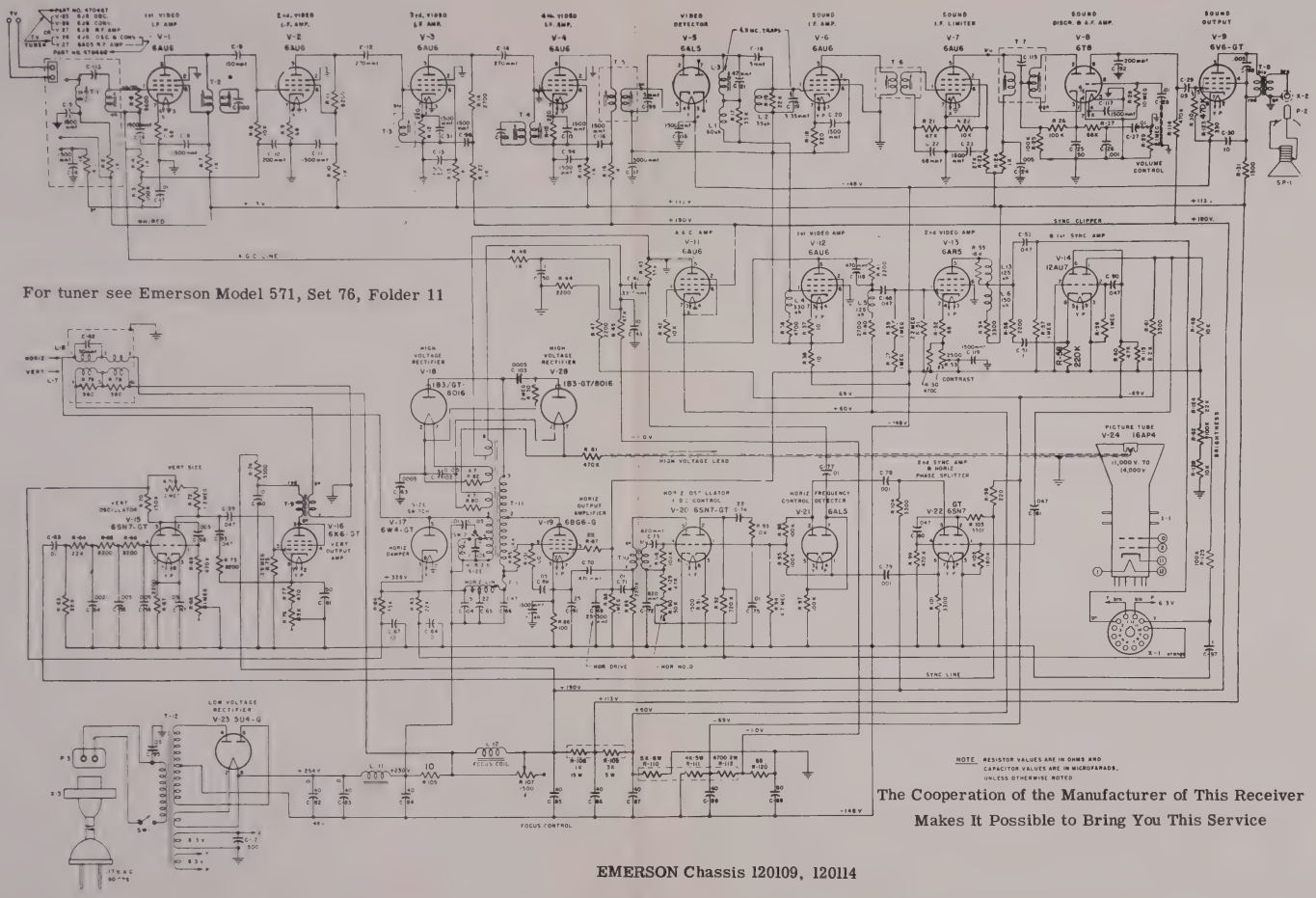

For tuner see Emerson Model 571,
Set 76, Folder 11
NOTE RESISTOR VALUES ARE IN OHMS AND CAPACITOR VALUES ARE IN MICROFARADS, UNLESS OTHERWISE NOTED

The Cooperation of the Manufacturer of This Receiver
Makes It Possible to Bring You This Service.

EMERSON Chassis 120120



For tuner see Emerson Model 571, Set 76, Folder 11

NOTE RESISTOR VALUES ARE IN OHMS AND CAPACITOR VALUES ARE IN MICROFARADS, UNLESS OTHERWISE NOTED

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EMERSON Chassis 120109, 120114

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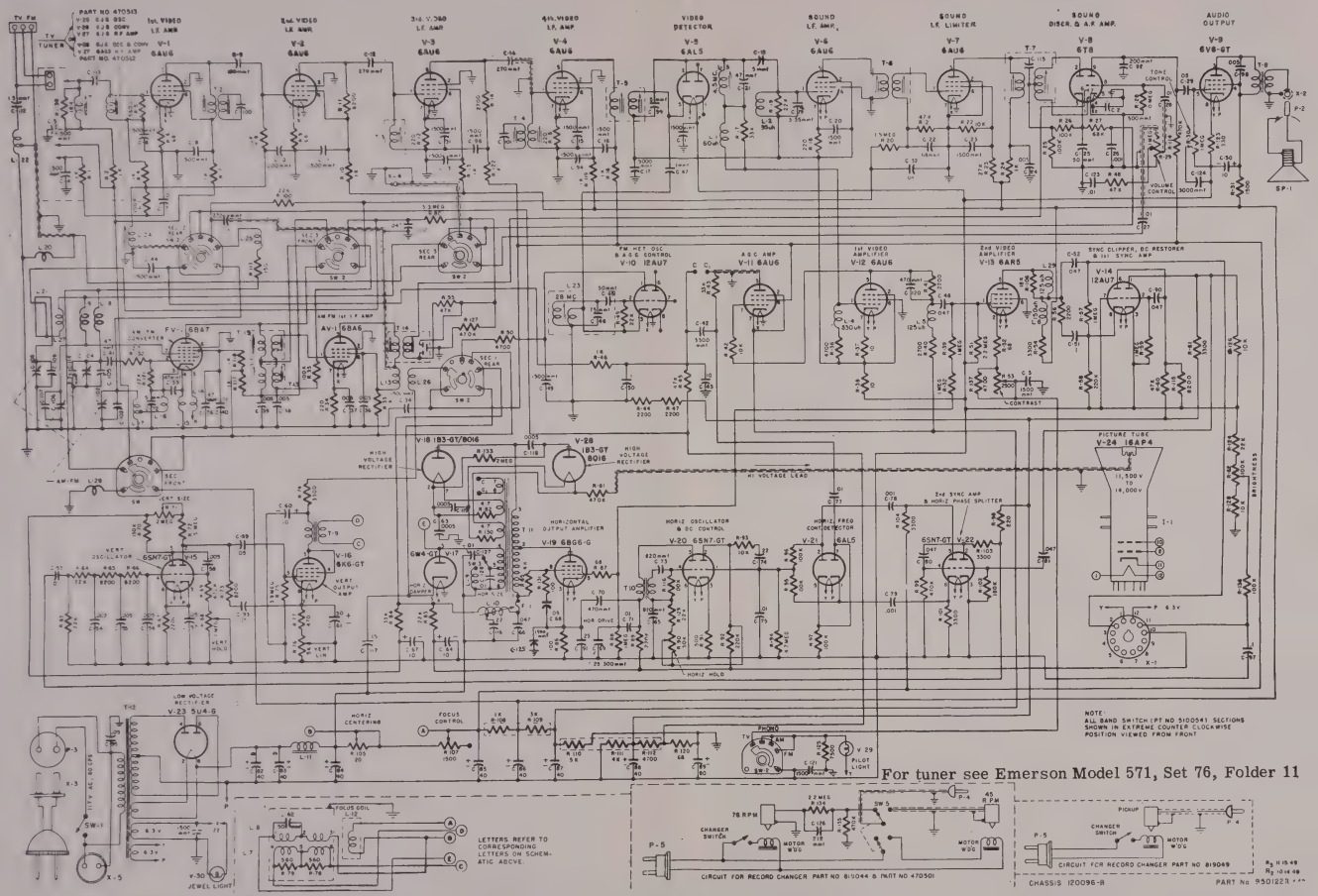

For tuner see Emerson Model 571, Set 76, Folder 11

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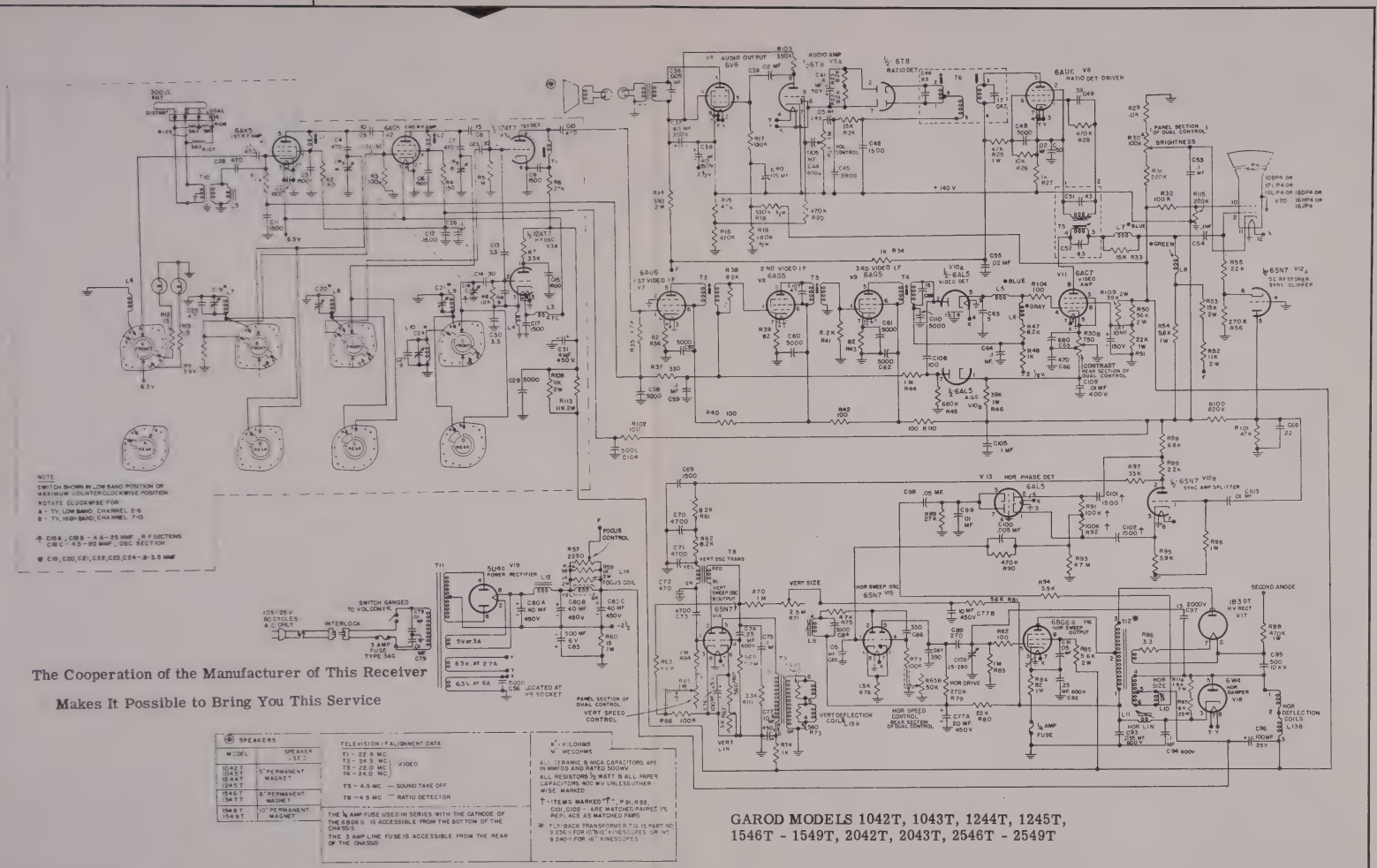
EMERSON Chassis 120096-B


NOTE
SWITCH SHOWN IN LOW BAND POSITION OR MAXIMUM COUNTERCLOCKWISE POSITION
ROTATE CLOCKWISE FOR
A - TV, LOW BAND, CHANNEL 2-6
B - TV, HIGH BAND, CHANNEL 7-13
C18A, C18B - 4.6-25 MMF, R.F. SECTIONS
C18C - 4.5-20 MMF, OSC. SECTION
C19, C20, C21, C22, C23, C24 - 8-3.5 MMF
The Cooperation of the Manufacturer of This Receiver
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SPEAKERS
MODEL
SPEAKER USED
1042T, 1043T, 1244T, 1245T
5" PERMANENT MAGNET
1546T, 1547T
6" PERMANENT MAGNET
1548T, 1549T
10" PERMANENT MAGNET
TELEVISION I.F. ALIGNMENT DATA
T1 - 22.9 MC
T2 - 24.3 MC
T3 - 22.0 MC
T4 - 24.0 MC
VIDEO
T5 - 4.5 MC — SOUND TAKE OFF
T6 - 4.5 MC — RATIO DETECTOR
THE ½ AMP FUSE USED IN SERIES WITH THE CATHODE OF THE 6BQ6 G IS ACCESSIBLE FROM THE BOTTOM OF THE CHASSIS
THE 3 AMP LINE FUSE IS ACCESSIBLE FROM THE REAR OF THE CHASSIS
K = KILOHMS
M = MEGOHMS
ALL CERAMIC & MICA CAPACITORS ARE IN MMFDS AND RATED 500WV
ALL RESISTORS ½ WATT & ALL PAPER CAPACITORS 400 WV UNLESS OTHERWISE MARKED
† - ITEMS MARKED †: P91, R92, C101, C102 - ARE MATCHED PAIRS & REPLACE AS MATCHED PAIRS
* FLY-BACK TRANSFORMER T15 IS PART NO 9 236-1 FOR 10"&12" KINESCOPES OR NO 9 240-1 FOR 16" KINESCOPES
GAROD MODELS 1042T, 1043T, 1244T, 1245T,
1546T - 1549T, 2042T, 2043T, 2546T - 2549T

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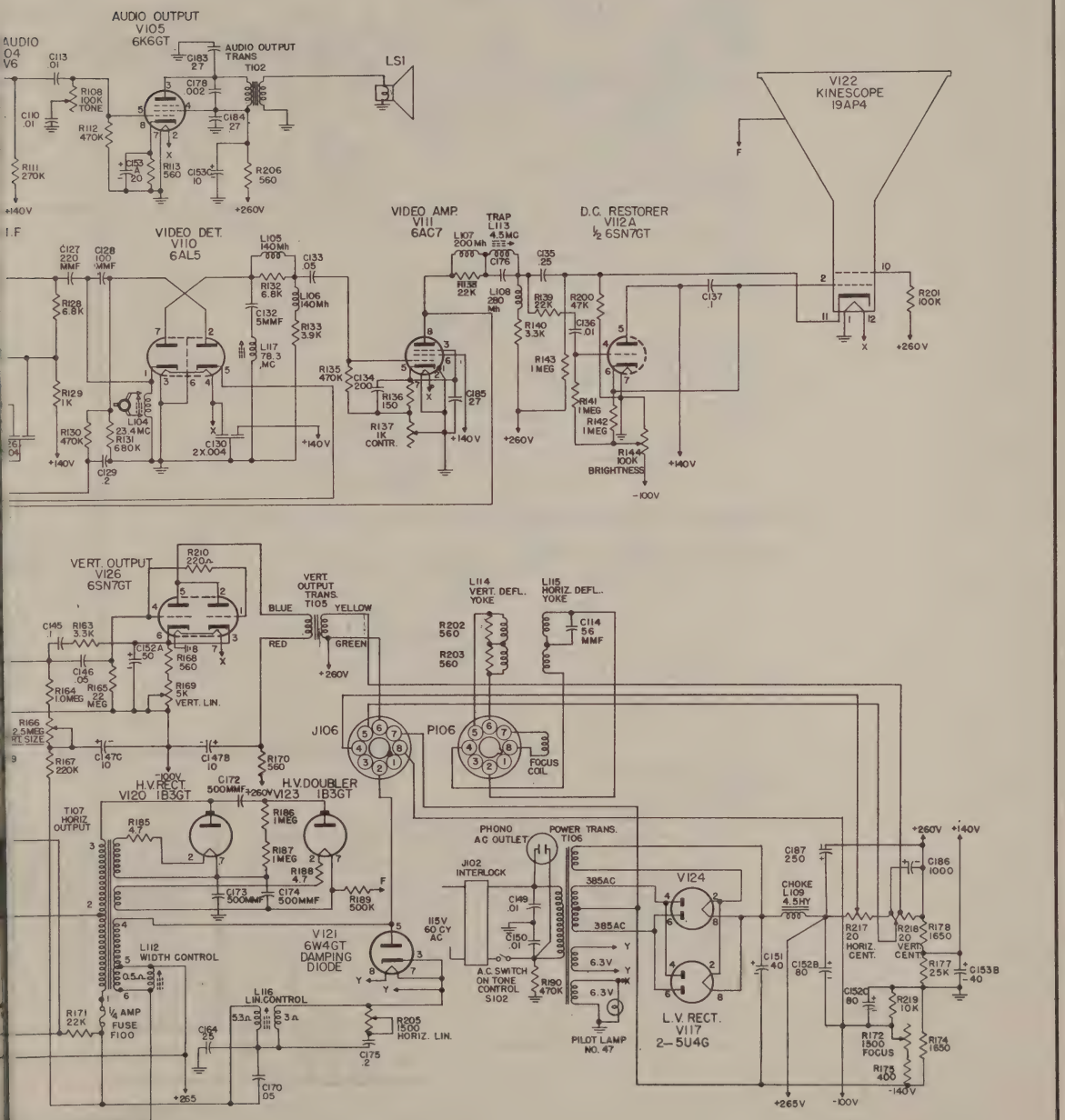
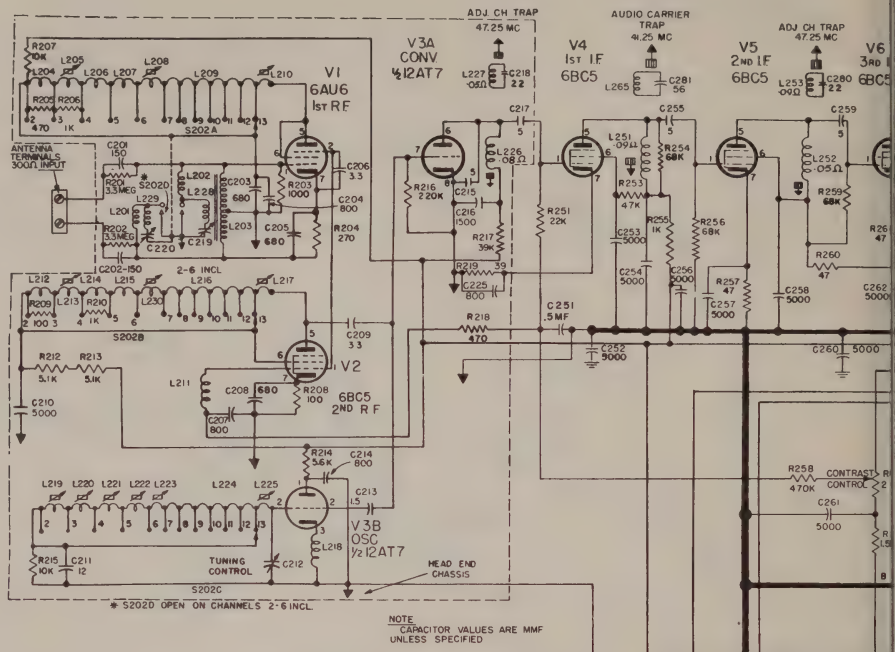


HOFFMAN MODELS 836, 837, 840



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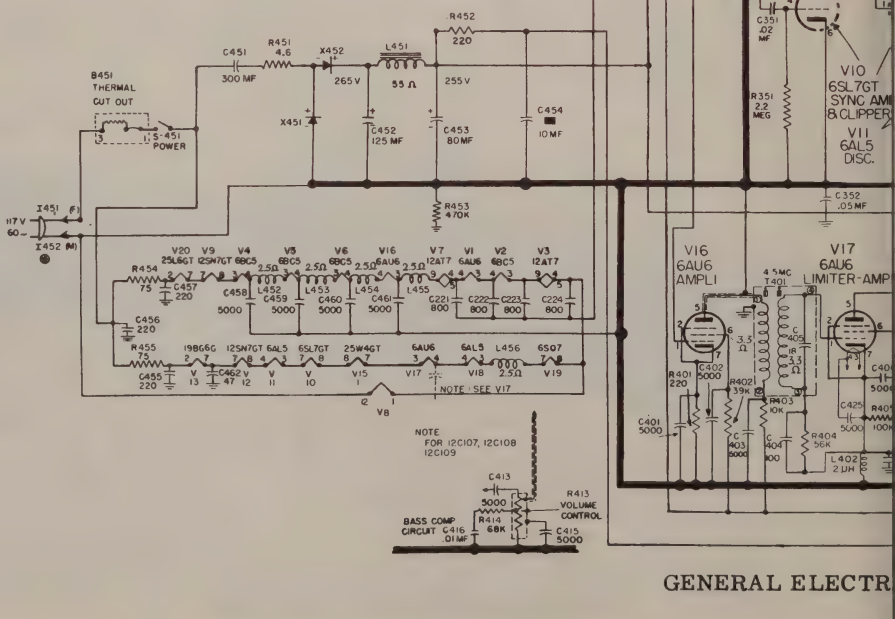
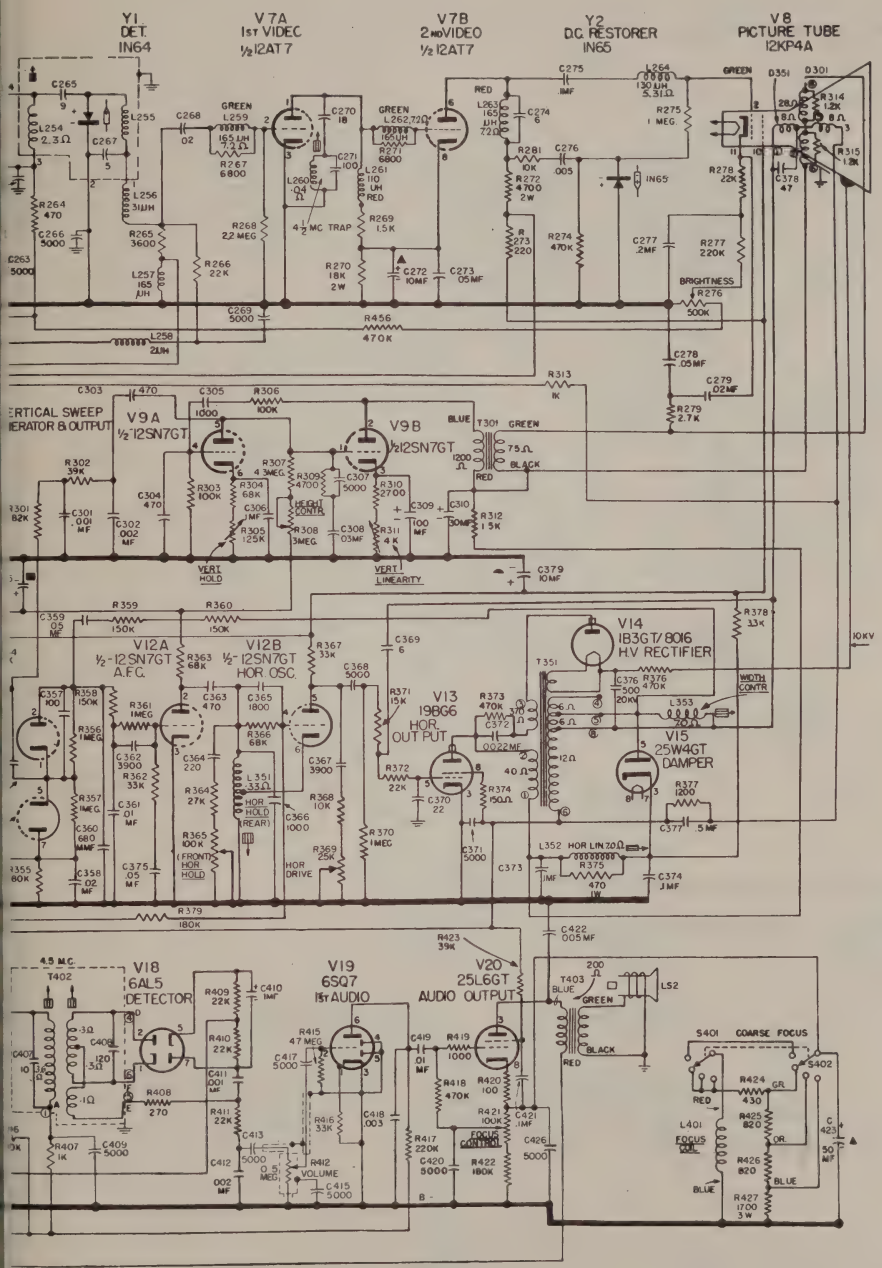
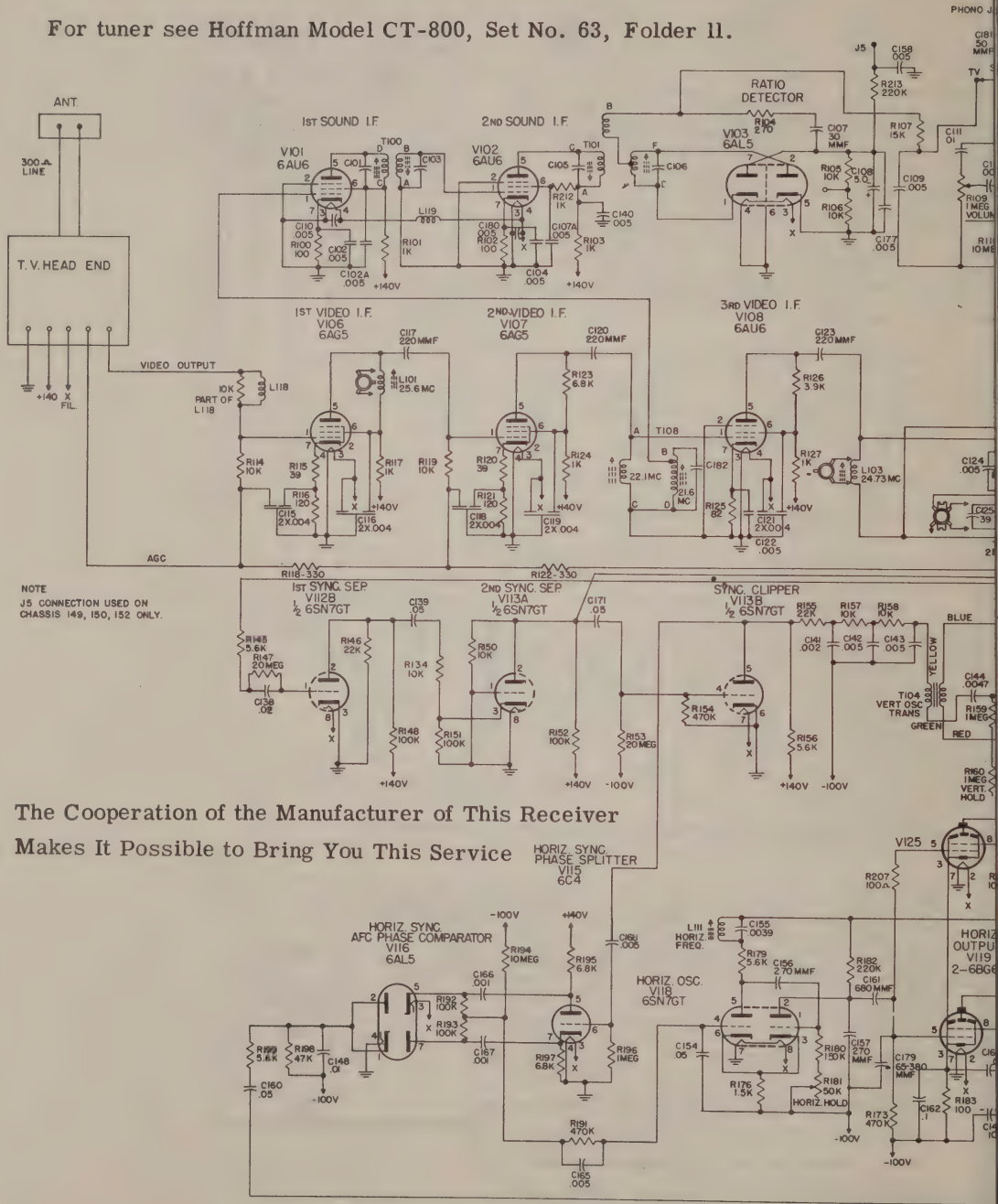




MODELS 12C107, 12C108, 12C109, 12T3, 12T4

For tuner see Hoffman Model CT-800, Set No. 63, Folder 11.



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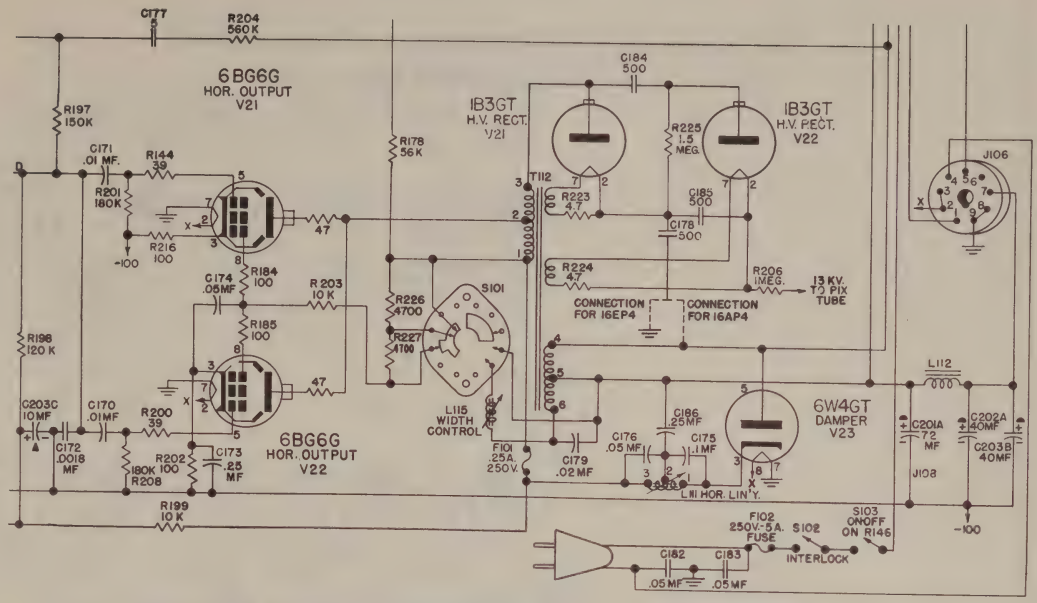
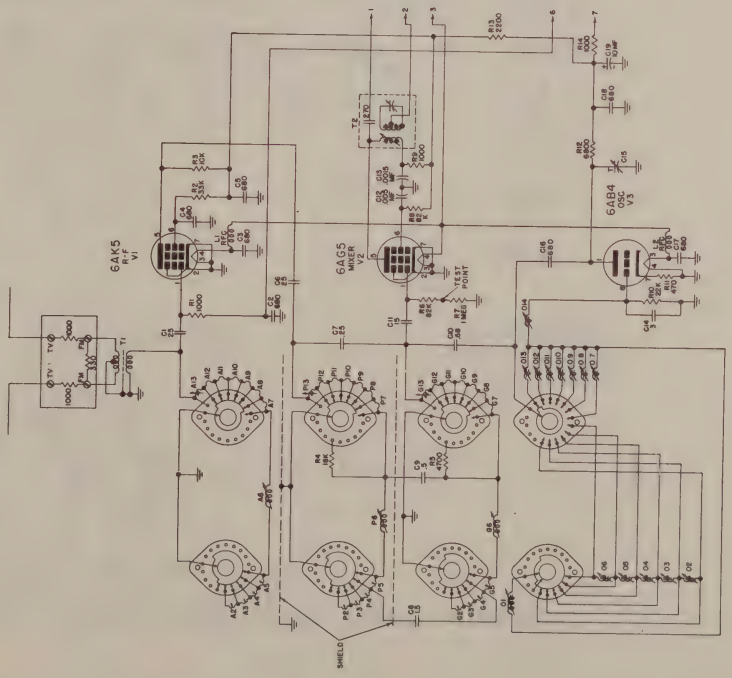


MAGNAVOX CHASSIS CT244, CT245, CT246 HORIZONTAL DEFLECTION CIRCUIT



MAGNAVOX RF TUNER CHASSIS CT244, CT245, CT246

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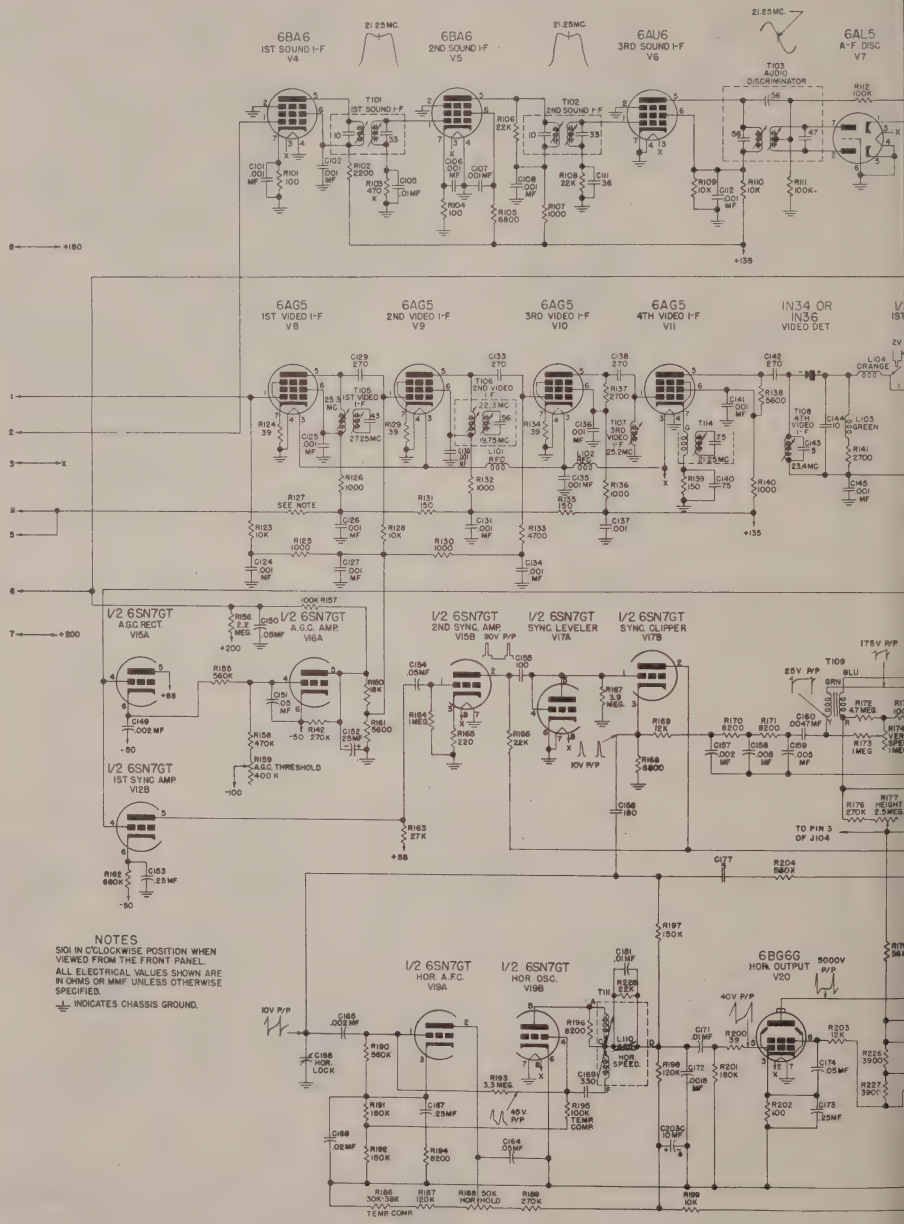
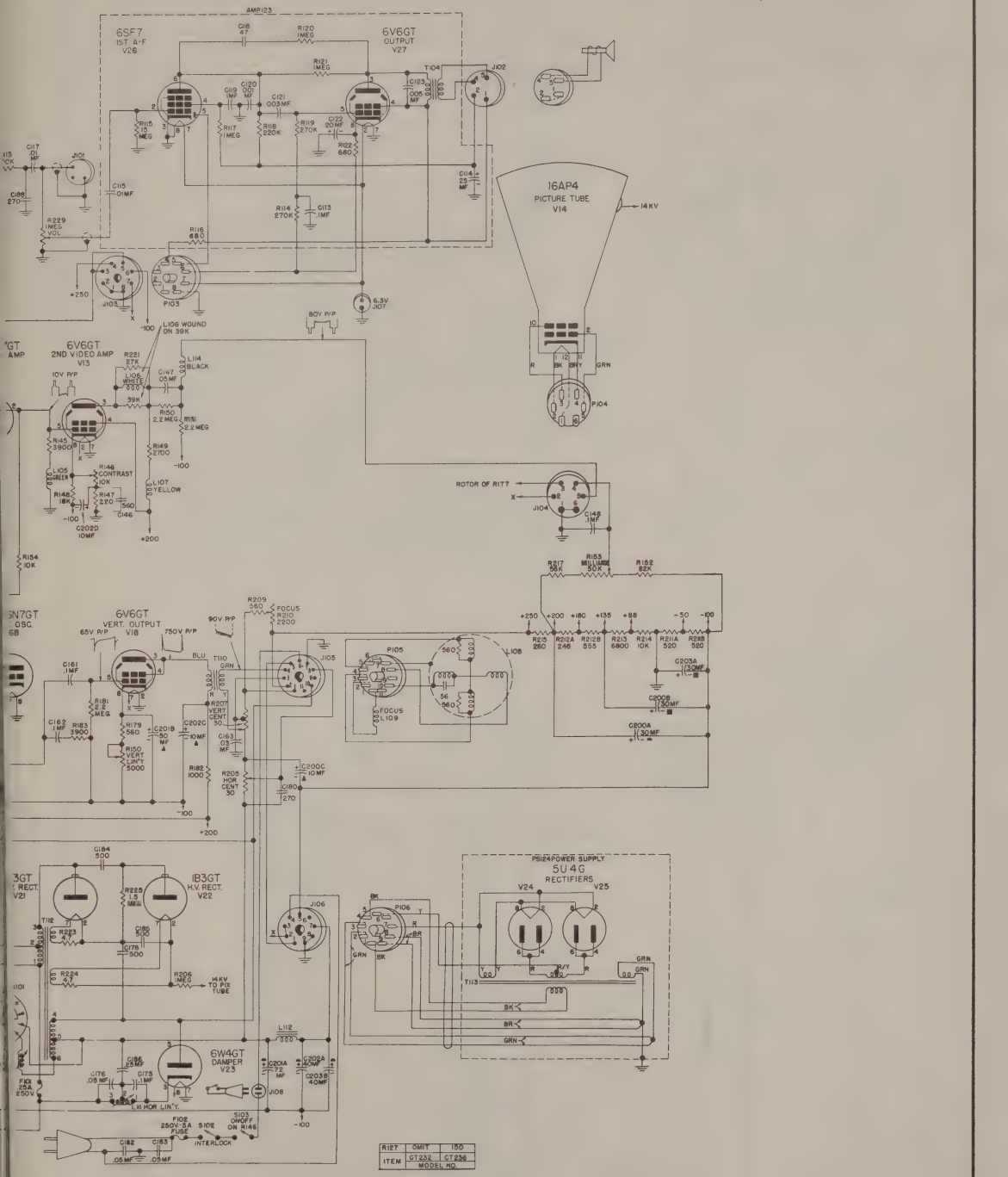
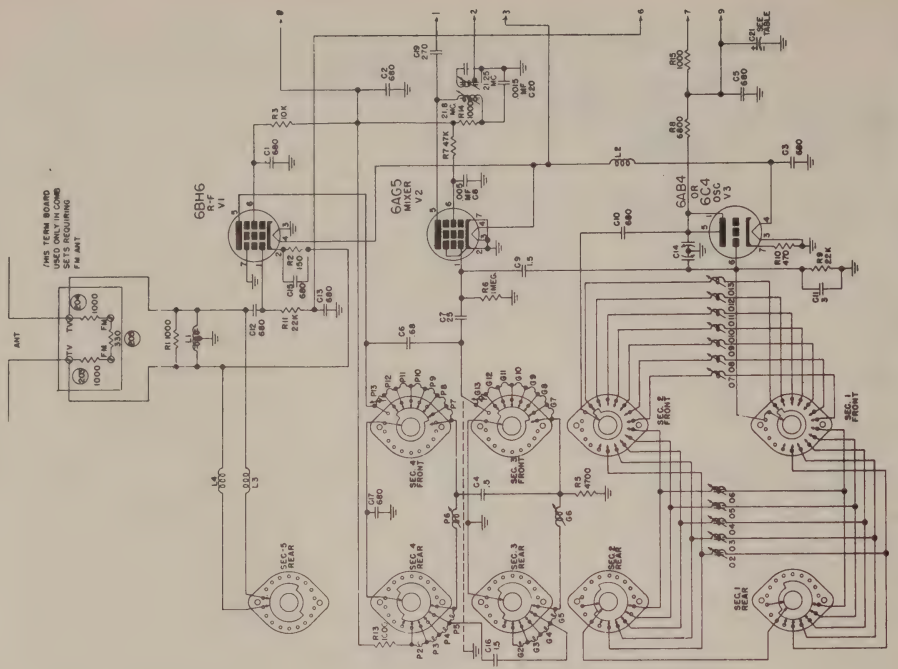


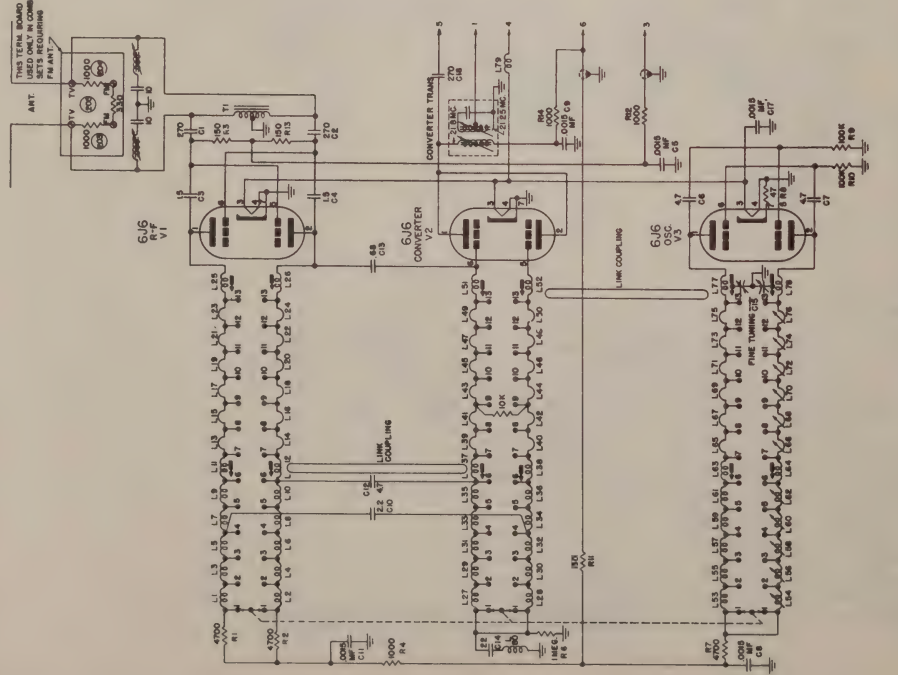
MAGNAVOX CHASSIS CT232, CT236, CT239, CT244, CT245, CT246


AMP103
6SF7
1ST A-F
V26
6V6GT
OUTPUT
V27
16AP4
PICTURE TUBE
V14
14 KV
6V6GT
2ND VIDEO AMP
V13
6V6GT
VERT. OUTPUT
V18
6W4GT
DAMPER
V23
1B3GT
H.V. RECT.
V22
5U4G
RECTIFIERS
V24
V25
PS124 POWER SUPPLY
ROTOR OF R177
-100
+200
+250
+180
+135
+88
-50
6.3V
J107
80V P/P
10V P/P
65V P/P
750V P/P
90V P/P
FOCUS
L109
L108
L106 WOUND ON 39K
R127 | OMIT | 150
ITEM | GT232 | GT236
MODEL NO.

MAGNAVOX CHASSIS CT232, CT236, CT239, CT244, CT245 CT246



MAGNAVOX RF TUNER CHASSIS CT232, CT239



MAGNAVOX RF TUNER CHASSIS CT236, CT240

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MOTOROLA MODELS 16VK1R, B, 16K2L, 16K2LB
(Chassis TS-52)

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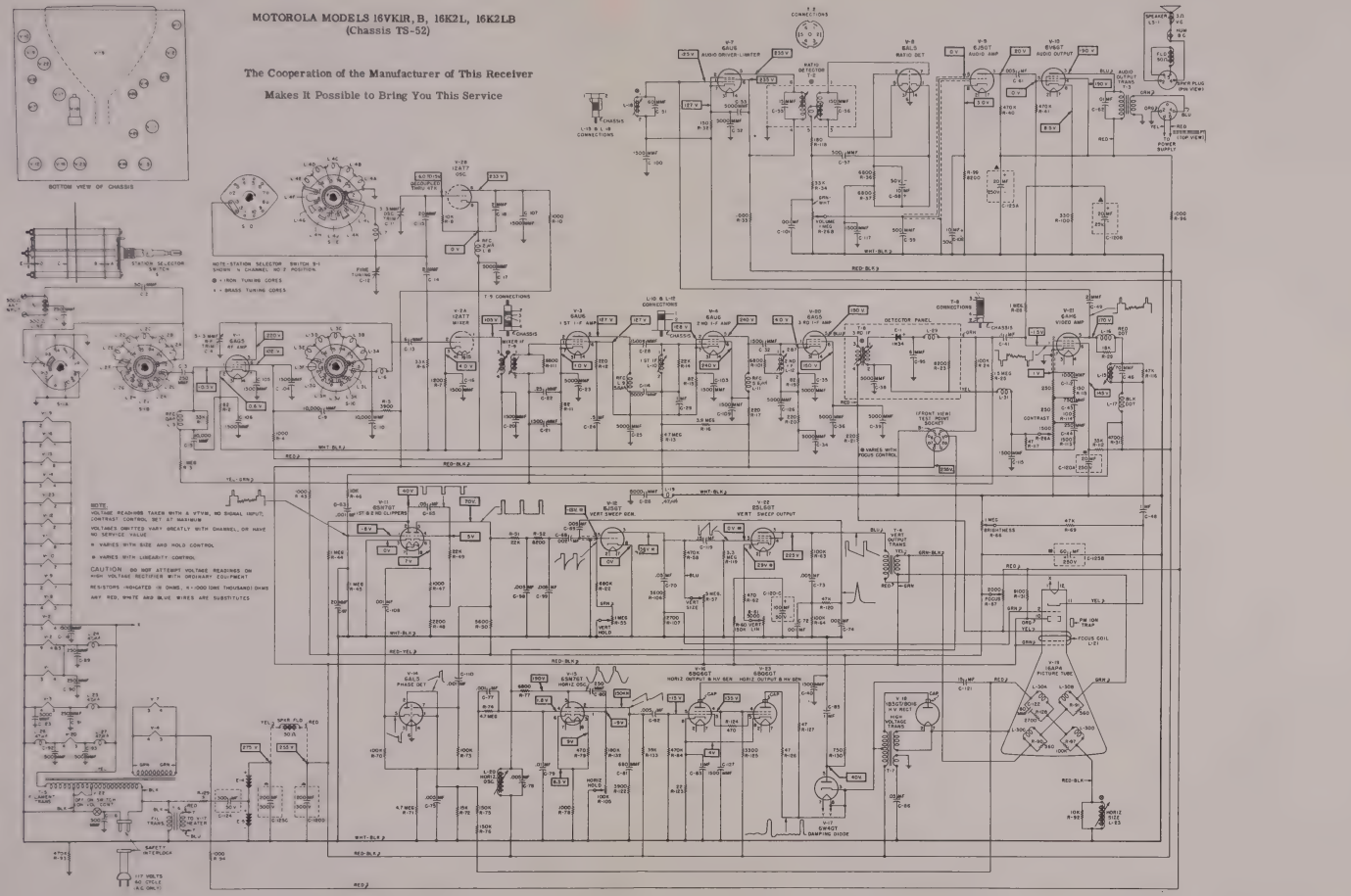
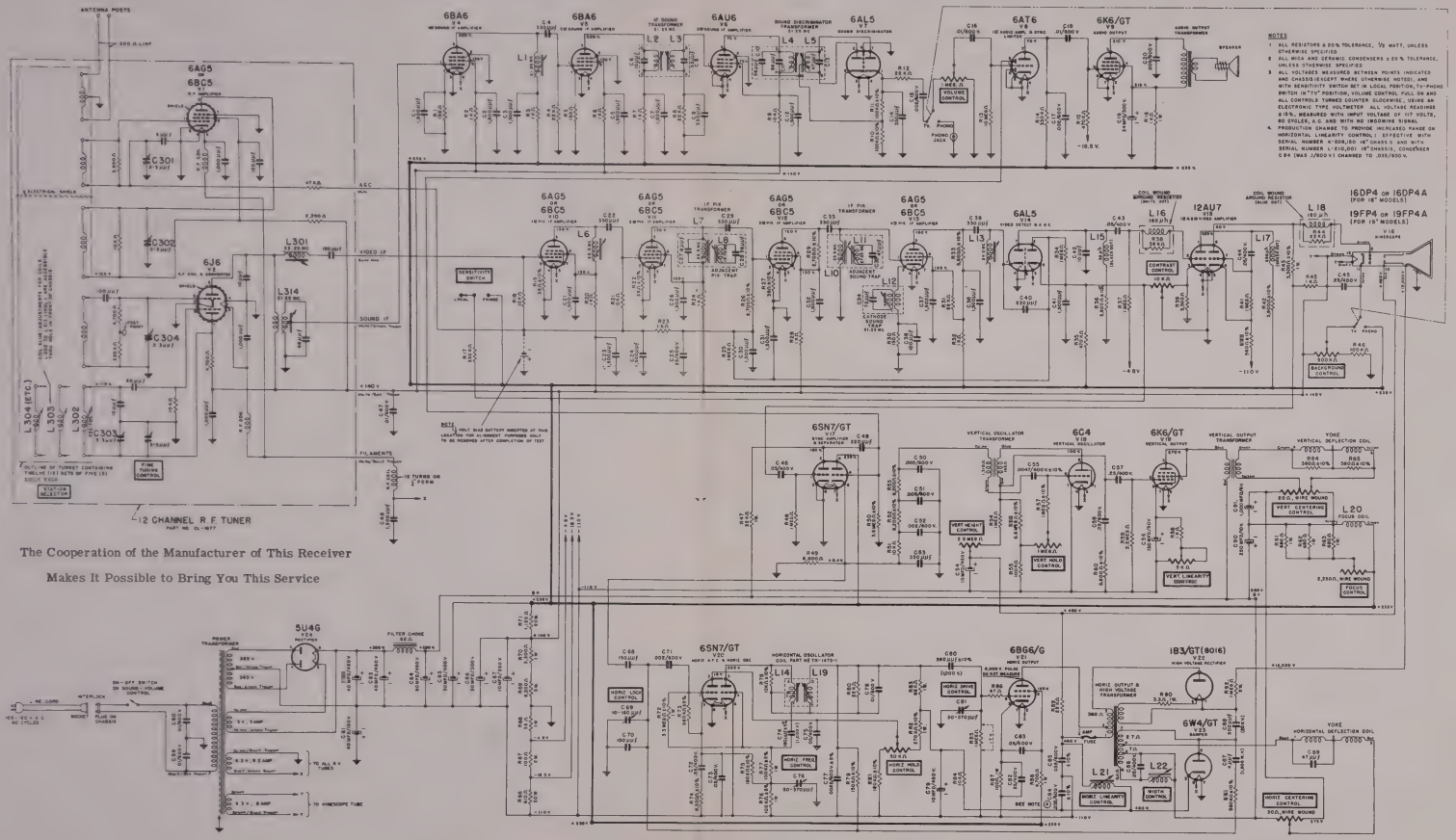

BOTTOM VIEW OF CHASSIS
STATION SELECTOR SWITCH
NOTE-STATION SELECTOR SWITCH S-1 SHOWN IN CHANNEL NO 2 POSITION
● = IRON TUNING CORES
+ = BRASS TUNING CORES
FINE TUNING
T-9 CONNECTIONS
T-7 CONNECTIONS
T-8 CONNECTIONS
L-10 & L-11 CONNECTIONS
L-13 & L-18 CONNECTIONS
DETECTOR PANEL
FRONT VIEW TEST MOUNT SOCKET
SPEAKER
POWER PLUG (PIN VIEW)
POWER SUPPLY
V-7 6AU6 AUDIO-LIMITER
V-8 6AL5 RATIO DET
V-9 6J5GT AUDIO AMP
V-10 6V6GT AUDIO OUTPUT
V-2A 12AT7 MIXER
V-2B 12AT7 OSC
V-3 6AU6 1ST I-F AMP
V-4 6AU6 2ND I-F AMP
V-5 6AU6 3RD I-F AMP
V-6 6AL5 VIDEO AMP
V-11 6SN7GT SYNC CLIPPER
V-12 6J5GT VERT SWEEP GEN.
V-13 6SN7GT HORIZ OSC
V-14 6AU6 PHASE DET
V-15 6BQ6GT HORIZ OUTPUT & H.V. GEN
V-16 6BQ6GT HORIZ OUTPUT & H.V. GEN
V-17 6W4GT DAMPING DIODE
V-18 6BC7/6CH6 H.V. RECT
V-19 6SN7GT VERT OUTPUT
V-20 6BL8GT VERT SWEEP OUTPUT
V-21 1B3GT/8016 H.V. RECT
V-22 6AU6 CONTRAST
V-23 6AU6 BRIGHTNESS
V-24 6AU6 FOCUS
V-25 6AU6 PM ION TRAP
V-26 6AU6 FOCUS COIL
V-27 6AU6 PICTURE TUBE
V-28 6AU6 VOLTAGE TRANS
V-29 6AU6 VOLTAGE TRANS
V-30 6AU6 VOLTAGE TRANS
V-31 6AU6 VOLTAGE TRANS
V-32 6AU6 VOLTAGE TRANS
V-33 6AU6 VOLTAGE TRANS
V-34 6AU6 VOLTAGE TRANS
V-35 6AU6 VOLTAGE TRANS
V-36 6AU6 VOLTAGE TRANS
V-37 6AU6 VOLTAGE TRANS

OLYMPIC TV MODELS DX-619, DX-620, DX-621, DX-622, DX-931, DX-932 & DX-950

THIS DIAGRAM APPLIES TO—{MODELS DX-619, DX-620, DX-621, DX-622 & DX-950 SERIAL NUMBERED FROM K-208,001 TO K-210,000 & FROM K-280,001 TO K-290,000 INCLUSIVE.
{MODELS DX-931 & DX-932 SERIAL NUMBERED FROM L-210,001 TO L-213,000 & FROM L-300,001 TO L-310,000 INCLUSIVE.


ANTENNA POSTS
300 Ω LINE
6AG5 OR 6BC5
6J6
6BA6
6AU6
6AL5
6AT6
6K6/GT
12AU7
16DP4 OR 16DP4A (FOR 16" MODELS)
19FP4 OR 19FP4A (FOR 19" MODELS)
SENSITIVITY SWITCH
LOCAL
PHONE
VOLUME CONTROL
PHONO JACK
CONTRAST CONTROL
BRIGHTNESS CONTROL
VIDEO IF
SOUND IF
FINE TUNING CONTROL
STATION SELECTOR
12 CHANNEL R.F. TUNER
FILAMENTS
12 TURNS OR 1 TURN
6SN7/GT
6C4
VERTICAL OSCILLATOR TRANSFORMER
VERTICAL OUTPUT TRANSFORMER
YOKE
VERTICAL DEFLECTION COIL
VERT. CENTERING CONTROL
VERT. HEIGHT CONTROL
VERT. HOLD CONTROL
VERT. LINEARITY CONTROL
FOCUS COIL
FOCUS CONTROL
5U4G
POWER TRANSFORMER
FILTER CHOKE
ON-OFF SWITCH ON BRIGHTNESS-VOLUME CONTROL
TO CHASSIS
TO CRT SOCKET
TO ALL R-F TUBES
TO ALL I-F TUBES
TO CRT SOCKET
TO CHASSIS
TO SPEAKER
TO CRT SOCKET
TO CHASSIS
TO CRT SOCKET
TO CHASSIS
TO CRT SOCKET
TO CHASSIS

WIRING CHANGES

SECTION 1

1. Resistor R101, 1900 ohms, is moved, as shown schematically in Figure 1.

2. A new resistor, R107, 6800 ohms, Part No. 66-2685340, is added, as shown schematically in Figure 1.

3. A 10-MF. capacitor, C108, Part No. 30-2417-6, is added, as shown schematically in Figure 1.

4. The voltage readings given at test point A (230v) should be changed to read as follows:

Contrast control clockwise, 245v
Contrast control counterclockwise, 290v

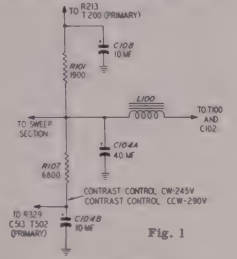


Fig. 1

MODEL 49-1240

Wiring Changes -

The following wiring changes affect the schematic:

1. Removal of lead connecting R513 to test point A of Section 1 (terminating at point marked with arrow and 230v reading).

2. Removal of orange lead from pin 10 of 10BP4 picture tube to junction of C320, C323, R328, and R508.

4. Addition of connection from R513 (bottom) to junction of C502A, R507, and R508.

SECTION 2

A jack, J201, Part No. 27-6126, and a switch, S200, Part No. 42-1863, are added, to adapt the audio system for an external high-impedance audio source. The wiring diagram is shown in Figure 2.

SECTION 5

Resistor R329, 4700 ohms, Part No. 66-2474340, is changed to 15,000 ohms, Part No. 66-3143240.

SECTION 5

A 100-ohm cathode bias resistor, R535, Part No. 66-1105340, is added, as shown in Figure 3. This resistor is switched into the circuit by S500 for audio operation from an external source, and is switched out for TV operation. S500 is part of S200.

MODEL 49-1275

Wiring Changes -

The following wiring changes affect the schematic:

1. Removal of lead connecting R513 to test point A of Section 1 (terminating at point marked with arrow and 230v reading).

2. Removal of orange lead from pin 10 of 10BP4 picture tube to junction of C320, C323, R328, and R329.

3. Connection of orange lead from pin 10 of 10BP4 picture tube to junction of C502A, R507, and R508.

4. Addition of connection from R513 (bottom) to junction of C502A, R507, and R508.

SECTION 1

The power transformer should be Part No. 32-8376.

SECTION 3

A 10-MF. capacitor, Part No. 30-2417-6, is added, and is connected between the top of resistor R330 and ground. The physical connections are as follows:

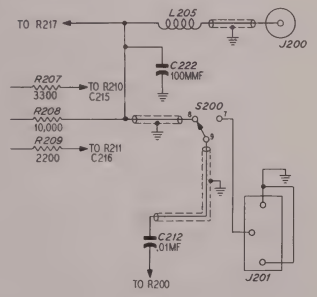


Fig. 2

The common tie point (lug) on the terminal strip for R327 and R328 is moved to the next lug at the left. The wire connecting these two lugs is removed. The 10-MF. capacitor is then added, between the first lug (from which R327 and R328 were removed) and ground. The ground connection is made at the lug located on a terminal strip immediately beside the 7Z4 rectifier tube. A lead is then added between the capacitor and the top of R330.

ALL MODELS

SECTION 2

A 100-MF. capacitor, C222, Part No. 62-110009001, is added. The wiring is shown in Figure 2.

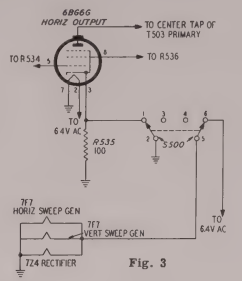


Fig. 3

PRODUCTION CHANGES

Production changes are classified by run numbers. Not only does the main chassis have its own run number, but certain subchassis carry separate run numbers. These run numbers may, or may not, coincide with one another; therefore, where production changes apply only to a certain subchassis, the information is given for a definite run of the unit.

To determine the run number of a main chassis, examine the series of numbers stamped in ink on the rear of the chassis. The last two digits of the series give the run number. For instance, if the series of numbers is 0332016702, the chassis is Run 2.

The run numbers of subchassis are stamped on the units in sample numbers which directly indicate the run.

TELEVISION CHASSIS
MODEL 49-1075

Run 2 (Main Chassis) -

1. Resistor R329, 4700 ohms, Part No. 66-2474340, was changed to 15,000 ohms, Part No. 66-3154340.

2. The following wiring changes were made (refer to complete schematic):

a. Lead connecting R513 to test point A of Section 1 (terminating at point marked with arrow and 230v reading) was removed.

b. Orange lead from pin 10 of 10BP4 picture tube to junction of C320, C323, R328, and R329 was removed.

c. Orange lead from pin 10 of 10BP4 picture tube was connected to junction of C502A, R507, and R508.

d. Connecting lead was added from R513 (bottom) to junction of C502A, R507, and R508.

e. Capacitor C510, .1-MF., was disconnected from transformer side of R525, and connected to same side as VERT. HOLD control.

3. The power transformer was changed from Part No. 32-8357 to Part No. 32-8376, to facilitate material procurement.

Run 3 (Main Chassis) -

A 10-MF. capacitor, Part No. 30-2417-6, was added, between the top of resistor R330 and ground. The physical wiring is as follows: The common tie point (lug) on the terminal strip for R327 and R328 was moved to the next lug at the left. The wire connecting these two lugs was removed. The 10-MF. capacitor was then added, between the first lug (from which R327 and R328 were removed) and ground; the ground connection was made at the lug located on a terminal strip immediately beside the 7Z4 rectifier tube. A lead was then connected between the capacitor and the top of R330.

MODEL 49-1240

Run 2 (Main Chassis) -

1. The power transformer was changed from Part No. 32-8357 to Part No. 32-8376, to facilitate material procurement.

2. A 10-MF. capacitor, Part No. 30-2417-6, was added, between the top of resistor R330 and ground. The physical wiring is as follows: The common tie point (lug) on the terminal strip for R327 and R328 was moved to the next lug at the left. The wire connecting these two lugs was removed. The 10-MF. capacitor was then added, between the first lug (from which R327 and R328 were removed) and ground; the ground connection was made at the lug located on a terminal strip immediately beside the 7Z4 rectifier tube. A lead was then connected between the capacitor and the top of R330.

Run 2 (IF Chassis) -

A 470-MMF. ceramic capacitor, Part No. 62-147001001, was added, across the cathode resistor (R201) of the 1st s-i-f tube.

PRODUCTION CHANGES (CONT.)

MODEL 49-1075, Code 122, TELEVISION CHASSIS

Run No.	Description of Change	Reason for Change
2	R329 changed from 4700 ohms to 15,000 ohms.	To reduce interaction between circuits.
2	Power transformer changed.	To facilitate material procurement.
3	10-MF. capacitor added between top of R330 and ground.	To reduce hum modulation.
4	R543, 10,000-ohm resistor, added in series with movable arm of R502.	To prevent overloading of HEIGHT control.
5	R532 changed from 33,000 ohms to 36,000 ohms (obtained by placing a 56,000-ohm resistor and a 100,000-ohm resistor in parallel).	To improve sync-control range.

MODEL 49-1240, TELEVISION CHASSIS

Run No.	Description of Change	Reason for Change
3	R330 changed from 680 ohms to 10,000 ohms, ten watts, and wired to 320 volt supply instead of 158 volt supply.	To reduce drain on 7Z4 tube.
4	C522 changed from .047 MF. to .08 MF.	To improve horizontal linearity.
5	R107, 56-ohm resistor, added in cathode circuit of 7Z4.	To reduce surge currents.

MODEL 49-1275, TELEVISION CHASSIS

3	R330 changed from 680 ohms to 10,000 ohms, ten watts, and wired to 320-volt supply instead of 158-volt supply.	To reduce drain on 7Z4 tube.
4	C522 changed from .047 MF. to .08 MF.	To improve horizontal linearity.
5	R532 changed from 33,000 ohms to 36,000 ohms (obtained by placing a 56,000-ohm resistor and a 100,000-ohm resistor in parallel).	To reduce surge currents.
6	R107, 56-ohm resistor, added in cathode circuit of 7Z4	To reduce surge currents.

IF STRIP OF MODELS 49-1075, 49-1240, 49-1275

Run No.	Description of Change	Reason for Change
3	L300, L301, L302 changed.	To facilitate padding.
4	Z201 changed to improved transformer.	To increase noise rejection.

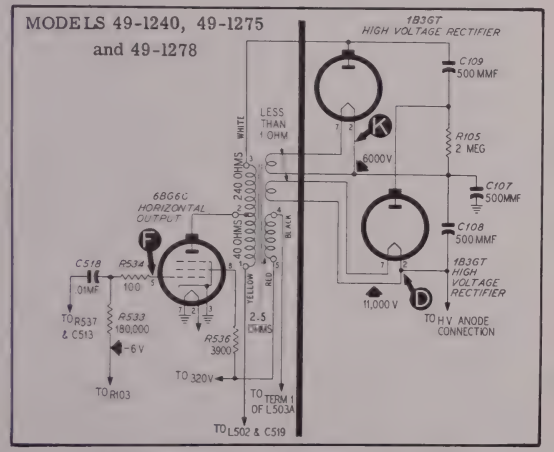
PHILCO MODELS 49-1075 (121, 122),
49-1076 (122), 49-1240 (121, 123),
49-1275 (121), 49-1278 (122)

MODELS 49-1076 and 49-1278

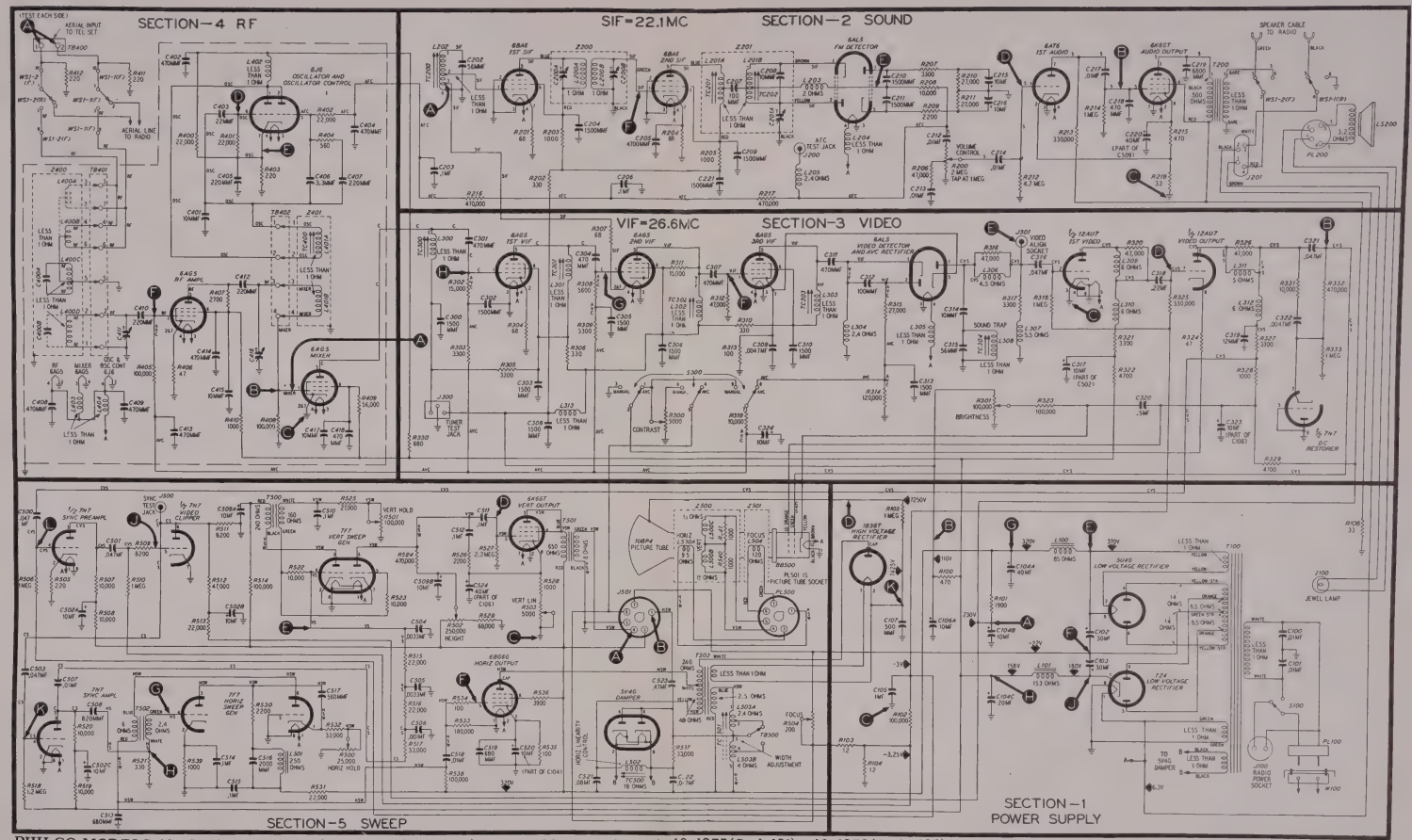
The television and radio chassis of Philco Models 49-1076, code 122, and 49-1278, code 122, are identical to those of models 49-1075, code 122, run 5, and 49-1275, run 6, respectively.

RADIO CHASSIS

For the radio chassis in the combination models see Model 49-1150, Set No. 70, Folder 6.



Alternate Horizontal Deflection Circuit



PHILCO MODELS 49-1075(Codes 121,122), 49-1076(Code 122), 49-1240(Codes 121,123),49-1275(Code121), 49-1278(Code 122) The Cooperation of the Manufacturer of This Receiver Makes It Possible to Bring You This Service

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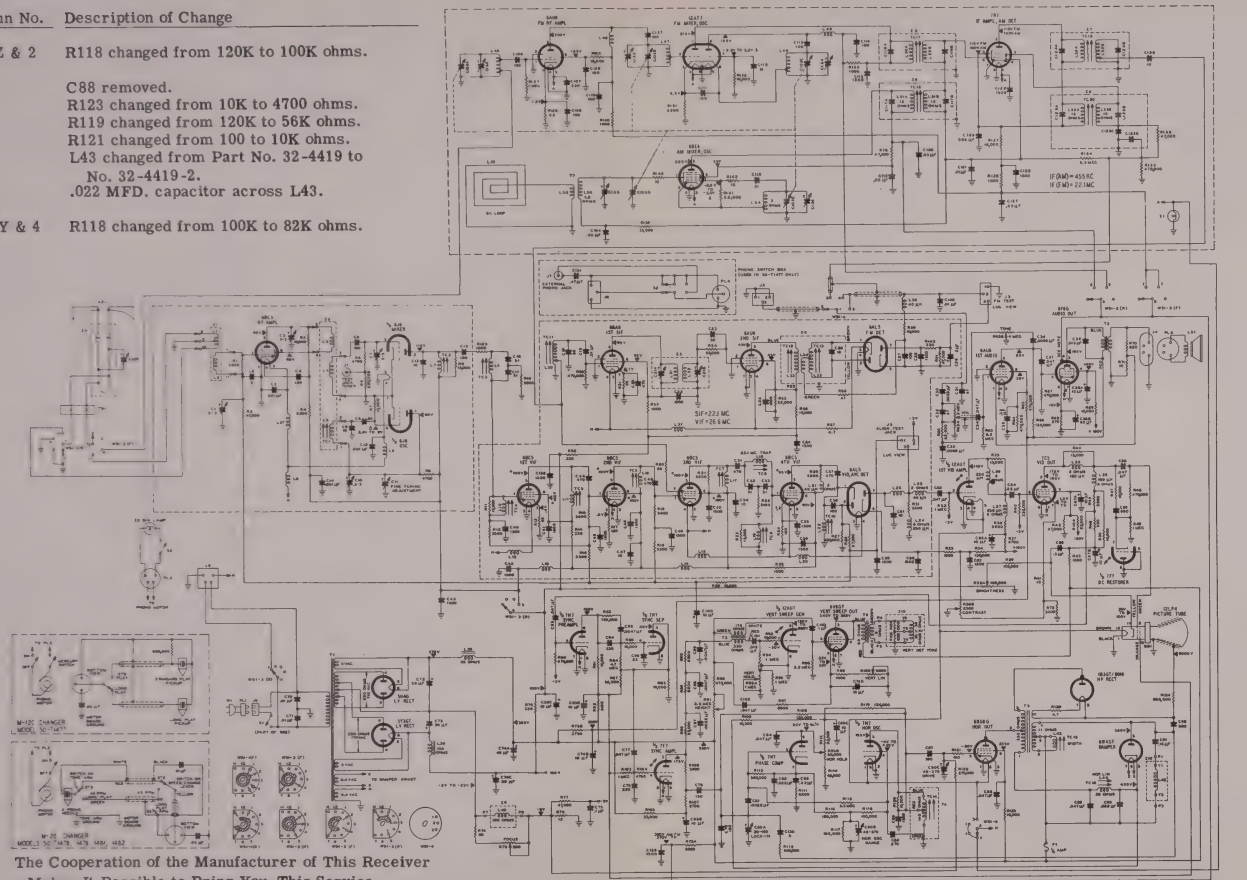
Run No.	Description of Change
1Z & 2	R118 changed from 120K to 100K ohms.
3	C88 removed. R123 changed from 10K to 4700 ohms. R119 changed from 120K to 56K ohms. R121 changed from 100 to 10K ohms. L43 changed from Part No. 32-4419 to No. 32-4419-2. .022 MFD. capacitor across L43.
3Y & 4	R118 changed from 100K to 82K ohms.



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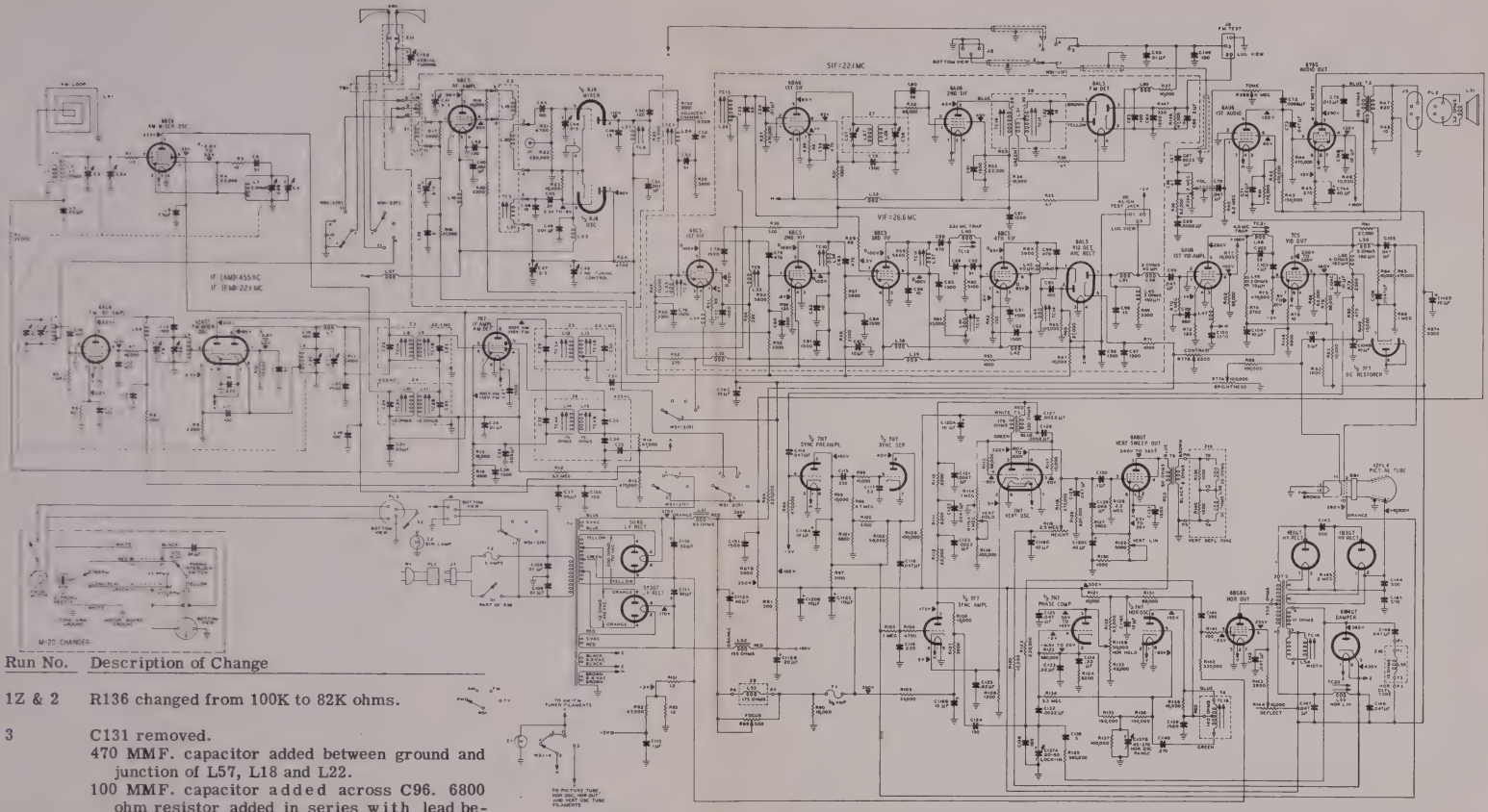
PHILCO MODELS 50-T1477, 50-T1478, 50-T1479, 50-T1481, 50-T1482.



Run No.	Description of Change
1Z & 2	R136 changed from 100K to 82K ohms.
3	C131 removed. 470 MMF. capacitor added between ground and junction of L57, L18 and L22. 100 MMF. capacitor added across C96. 6800 ohm resistor added in series with lead between R71 and R77B.

PHILCO MODEL 50-T1483

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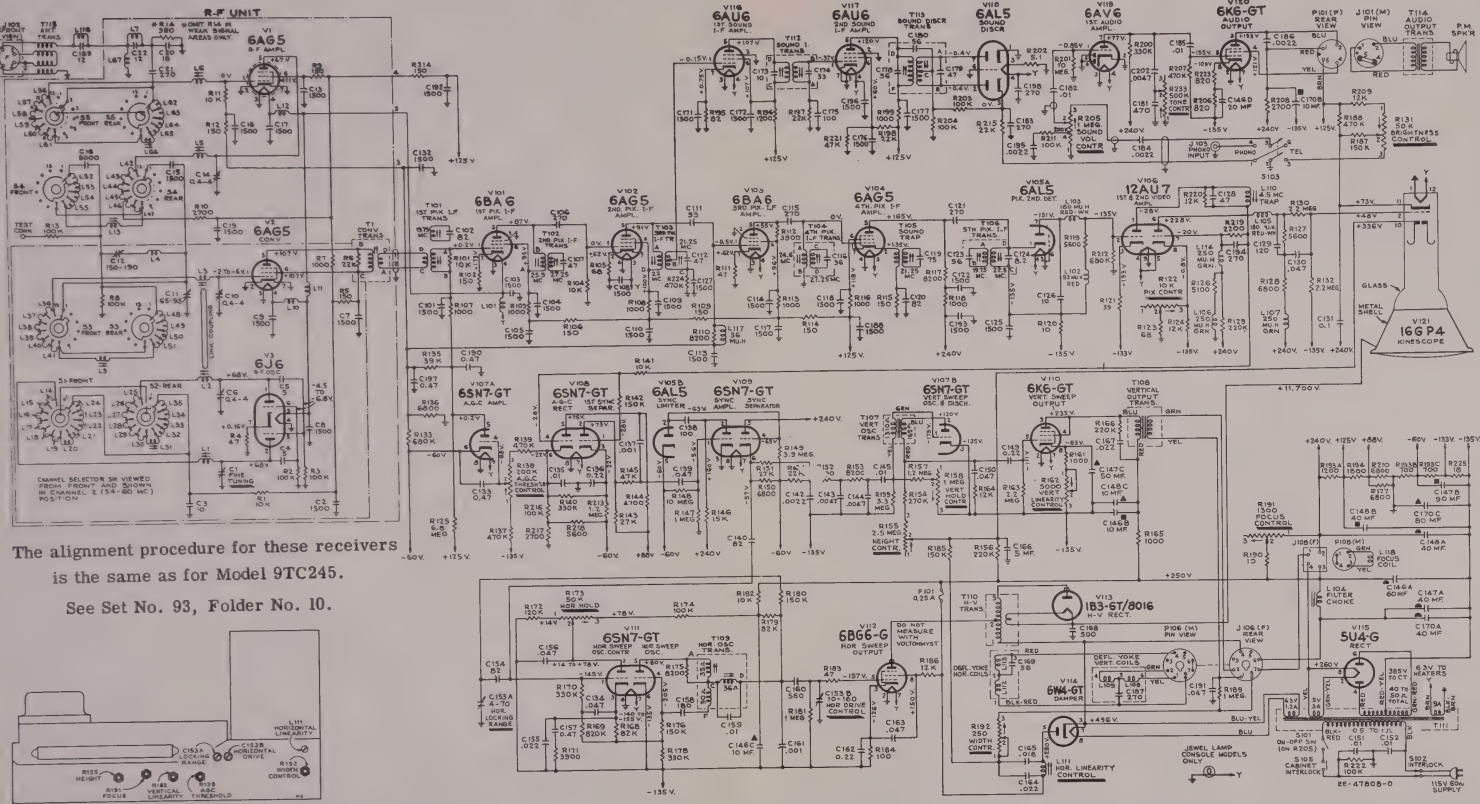

The alignment procedure for these receivers is the same as for Model 9TC245.

See Set No. 93, Folder No. 10.

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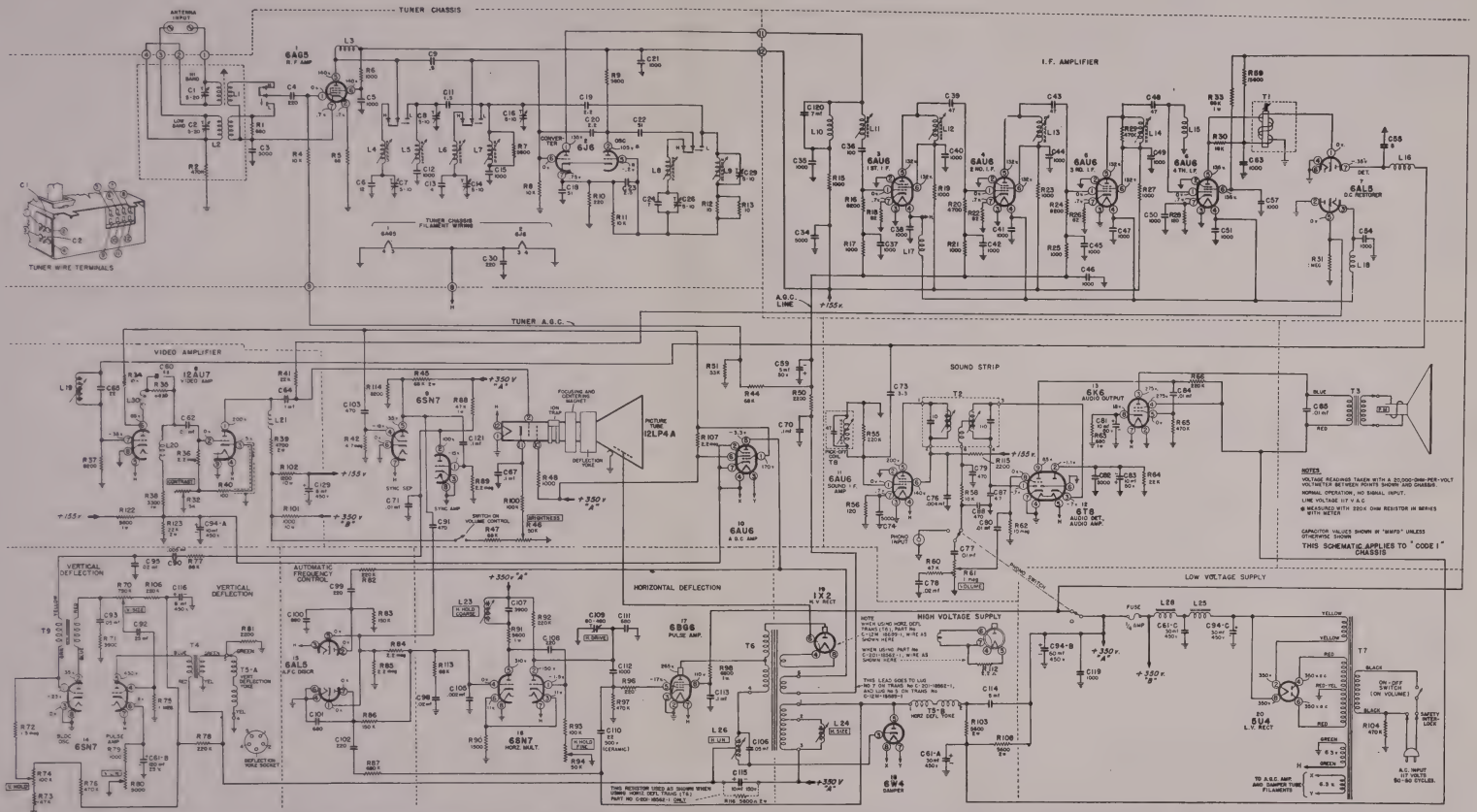
RCA VICTOR MODELS T164(Chassis KCS40), TC165, TC167, TC168(Chassis KCS40A)



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RAYTHEON MODELS C-1104B, M-1105B, M-1106, M-1107. (Chassis 12AX27)

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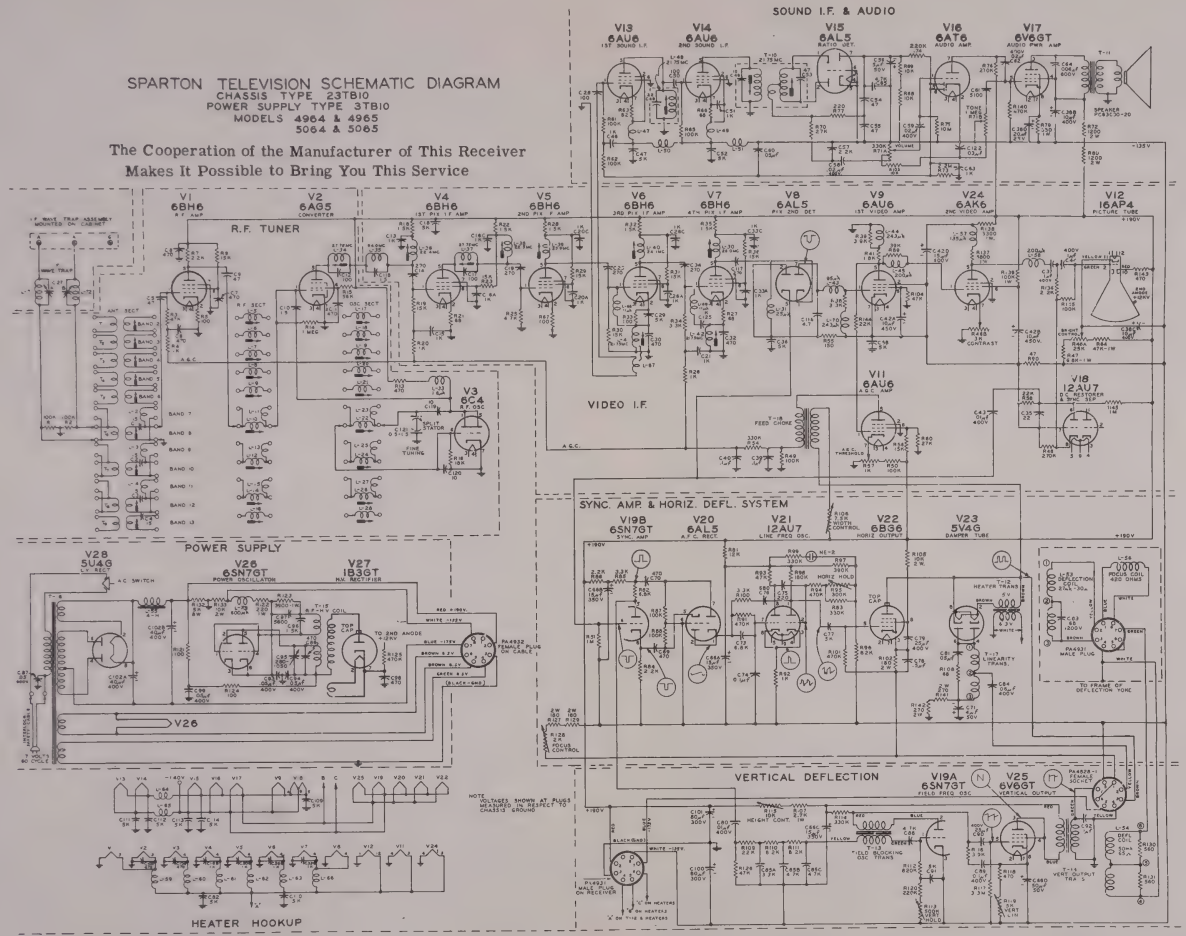
SPARTON TELEVISION SCHEMATIC DIAGRAM
CHASSIS TYPE 23TB10
POWER SUPPLY TYPE 3TB10
MODELS 4964 & 4965
5064 & 5065
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SOUND I.F. & AUDIO
R.F. TUNER
VIDEO I.F.
POWER SUPPLY
SYNC. AMP & HORIZ. DEFL. SYSTEM
VERTICAL DEFLECTION
HEATER HOOKUP
NOTE: VOLTAGES SHOWN AT PLUGS MEASURED IN RESPECT TO CHASSIS GROUND

SPARTON TELEVISION SCHEMATIC DIAGRAM

CHASSIS TYPE 23TD10

USED ON MODELS 5002, 5003, 5006 & 5007

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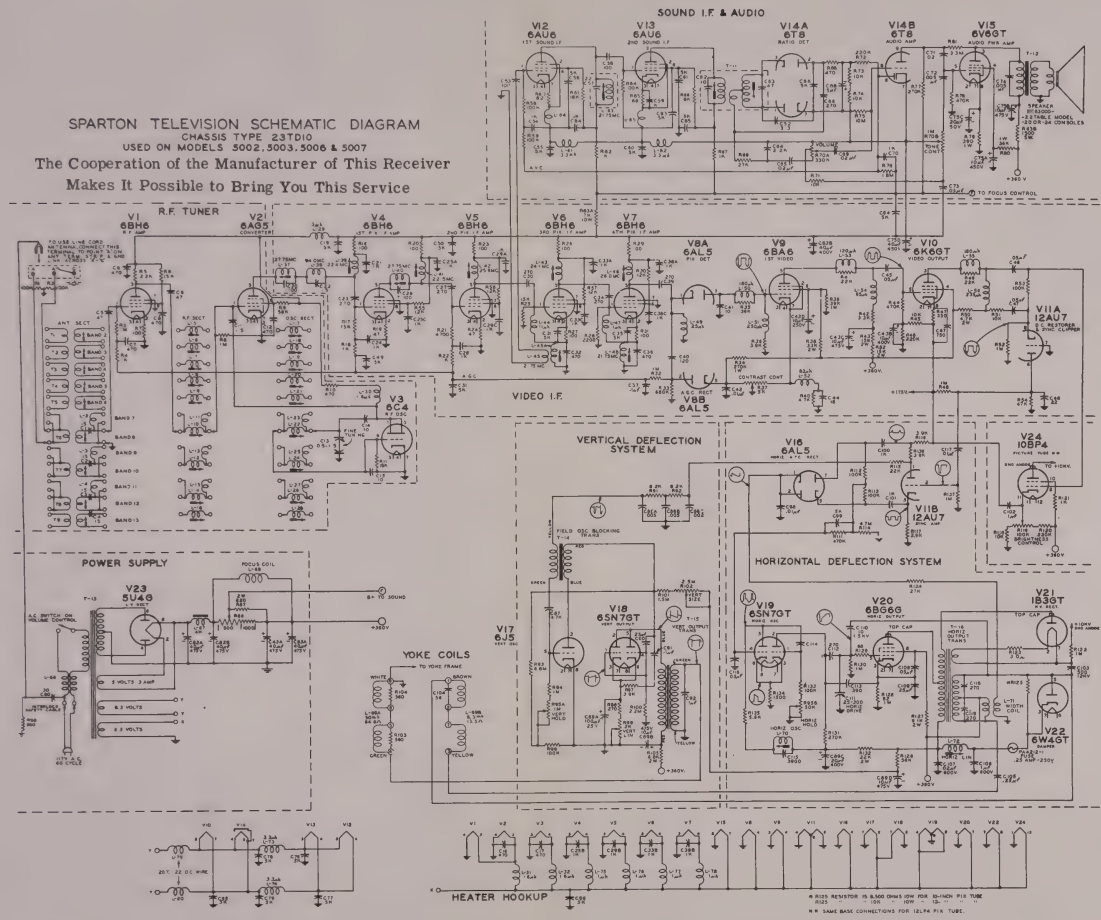

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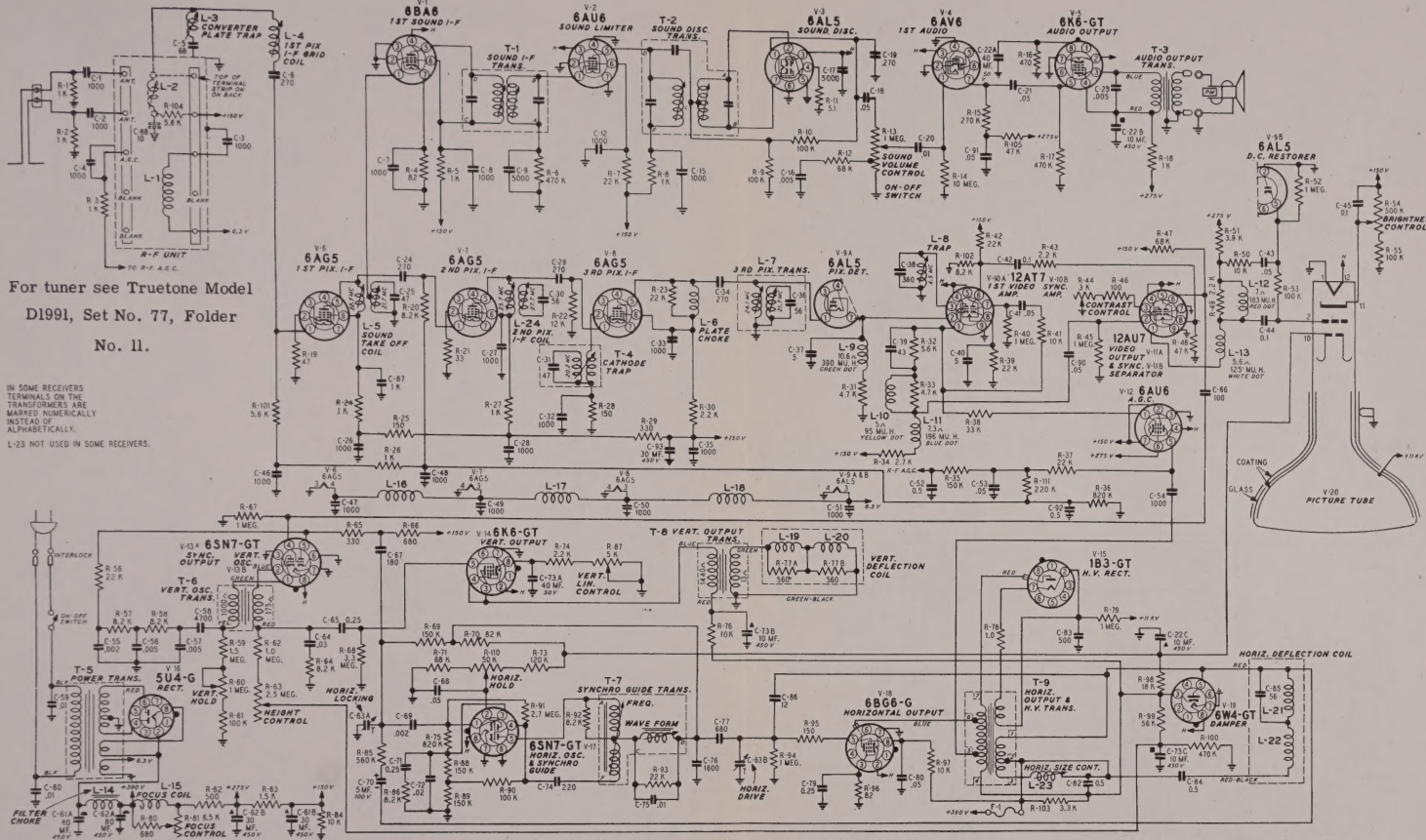

For tuner see Truetone Model D1991, Set No. 77, Folder No. 11.

IN SOME RECEIVERS TERMINALS ON THE TRANSFORMERS ARE MARKED NUMERICALLY INSTEAD OF ALPHABETICALLY.

L-23 NOT USED IN SOME RECEIVERS.

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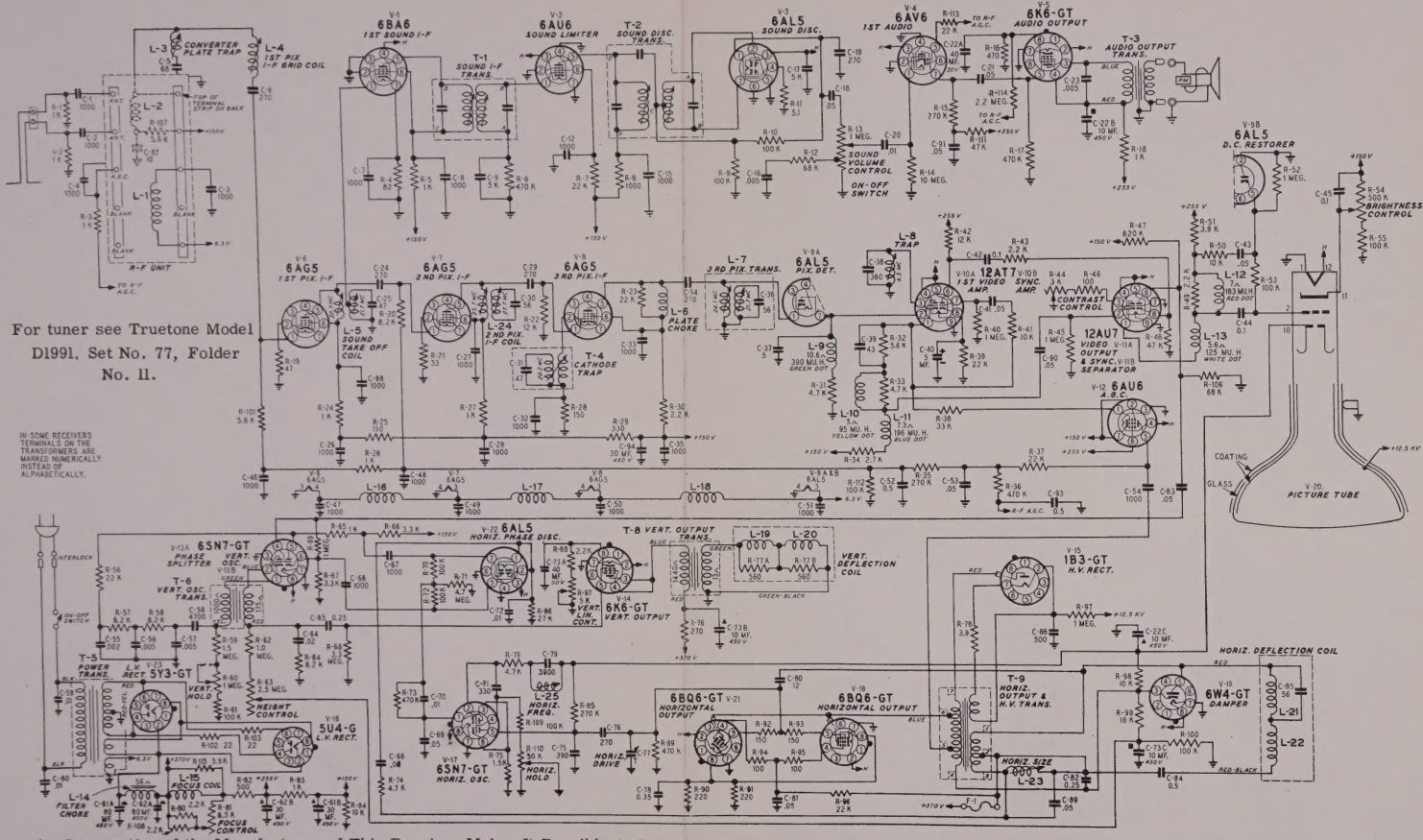
TRUETONE MODEL 2D1088A



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TRUETONE MODEL 2D1089A

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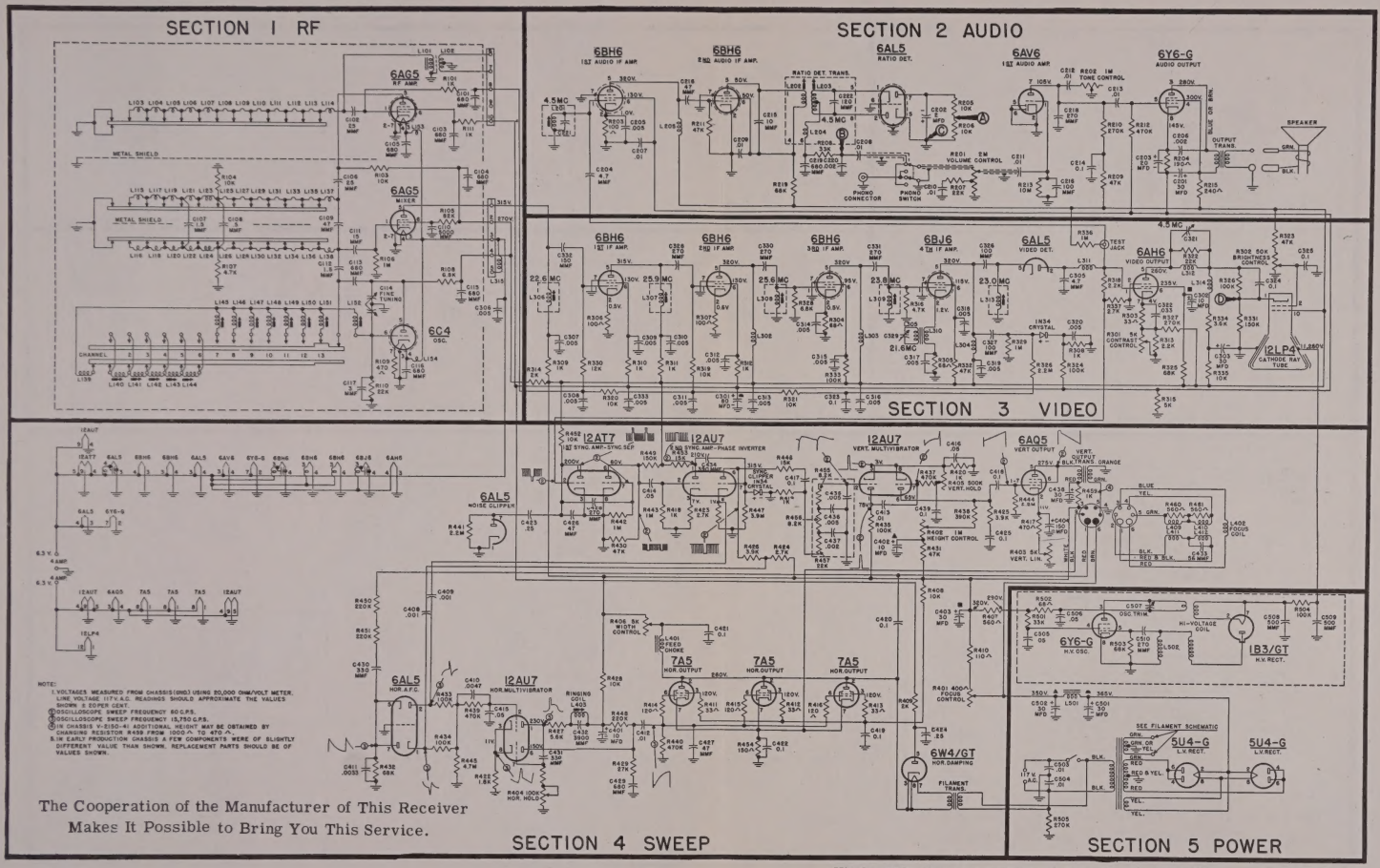
SECTION 1 RF
SECTION 2 AUDIO
SECTION 3 VIDEO
SECTION 4 SWEEP
SECTION 5 POWER
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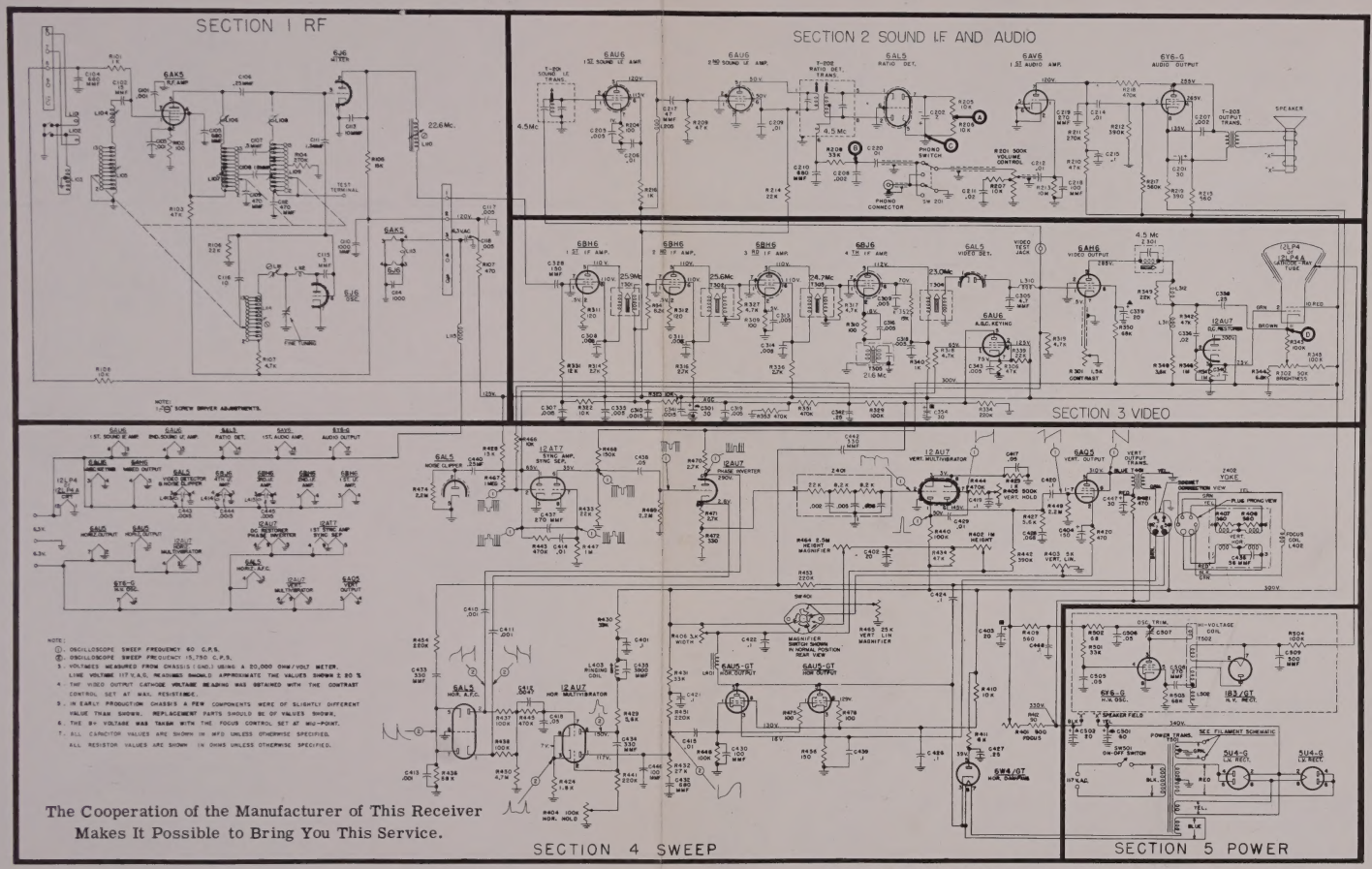
WESTINGHOUSE MODELS H-601K12, H-602K12(Chassis V-2150-41)



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WESTINGHOUSE MODELS H-610T12, H-614T12 (Chassis V-2150-136)

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